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North Carolina VITAL STATISTICS Volume 2-1996



Department of
Health and
Human Services

Division of Epidemiology

State Center for
Health Statistics



LEADING CAUSES OF DEATH

Publications of the State Center for Health Statistics

North Carolina Health Statistics Pocket Guide (Biennial):

Data for the U.S., N.C., and N.C. counties are presented in tabular and narrative forms with more than 8,000 calculations depicting patterns of various needs indicators, as well as births, deaths, abortions, diseases, health care resources, and other data from state and national reporting systems and surveys. This composite of information, contained in a compact foldout, will serve the needs of many health data users.

North Carolina Vital Statistics, Volume 1: Population, Births, Deaths, Marriages, Divorces (Annual):

For the state, Perinatal Care Region (PCR), county, and major incorporated city, one-page tables summarize annual and 5-year data by race and selected variables. Maps, graphs, and narrative describe geographical patterns and statewide trends.

North Carolina Vital Statistics, Volume 2: Leading Causes of Death (Annual):

For the state and counties, cause-specific annual and 5-year data are given in the form of numbers of deaths, unadjusted death rates, and age-race-sex-adjusted death rates. For each cause, maps depict 5-year adjusted and unadjusted county rates. Infant mortality data are also tabulated and mapped.

Basic Automated Birth Yearbook, North Carolina Residents (Annual):

Known as the BABY BOOK, this statewide report is comprised of multiple cross-tabulations of various maternal and infant variables such as age, race, birth order, birth weight, and number of prenatal visits as well as medical conditions of the mother, the labor/delivery, and the newborn. Data for counties are available on microfiche.

Detailed Mortality Statistics, North Carolina Residents (Annual):

This statewide report provides annual counts of deaths specific for detailed underlying cause of death (4 digits) and age-race-sex group. Data for counties are available on microfiche.

North Carolina Reported Pregnancies (Annual):

For the state, PCRs, and counties, annual estimates of pregnancy rates, live birth rates, abortion rates, and abortion fractions by age and race are followed by one-page tables displaying counts of pregnancies (abortions, live births, and fetal deaths) by race and age for total and unmarried women. Maps, graphs, and narrative describe geographical patterns and statewide trends.

Cancer Incidence in North Carolina, County-Specific Numbers (Annual):

Observed and expected numbers of newly diagnosed cancer cases for 26 cancer sites and total cancer are provided by county and gender. State and county tabulations of cases by race-sex and age are also provided.

Cancer in North Carolina, Detailed Analyses (Intermittent):

This report provides an in-depth assessment of cancer incidence and mortality patterns. Comparisons featured are by anatomic site, stage at diagnosis, age, race, sex, and geographic area. Data are in tabular, graphic, and narrative forms.

North Carolina Cancer Facts and Figures (Biennial):

This collaborative report with the American Cancer Society is prepared specifically for use by the public. It contains tabular, graphic, and narrative materials regarding cancer in North Carolina. Information about cancer control activities and agencies in the state is also given.

Local Health Department Facility and Staffing Report (Biennial):

Facility-level data are compiled from health department surveys. Capacity of facilities, staffing levels, and expenditure data are provided.

SCHS Studies (Intermittent):

Studies on health topics of current interest are presented in newsletter form.

SCHS Primer (Intermittent):

Short tutorials on statistical methods are presented in newsletter form.

An Inventory of North Carolina Health Data (Intermittent):

This publication describes by subject-matter health data sets existing in public and nonpublic agencies. Included in the description are the data set's location, the data collection interval, the smallest unit of analysis, whether computerized, and the name of a contact person.

LEADING CAUSES OF DEATH

North Carolina Vital Statistics 1996-Volume 2

**North Carolina Department of
Health and Human Services**

Division of Epidemiology

State Center for Health Statistics

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COVER: Pen and ink drawing by Jerry Miller: The Dodd-Hinsdale House (Raleigh), built in 1879	

INTRODUCTION

North Carolina Vital Statistics, Volume 2: Leading Causes of Death describes North Carolina's general and cause-specific deaths at the state and county level. More than a dozen of North Carolina's leading causes of death are depicted in tables and maps. In addition, major site-specific cancers and total infant deaths are tabulated and mapped.

This year's edition of *Leading Causes of Death* differs from previous years in several respects. The current edition represents a change from age-race-sex adjusted to age-adjusted rates. Therefore, the adjusted death rates in this volume are not comparable to those in previous editions. (Please read the technical notes "Adjusted 5-Year Death Rate" on page 101 and "Small Subpopulations" on page 104 for a definition of rates and discussion of the rationale for this change.) In addition, the 1980 standard population has been replaced with the 1990 standard population in the calculation of age-adjusted rates.

The 1996 edition also reflects organizational changes. The State Center for Health Statistics, formerly under the Department of Environment, Health, and Natural Resources (DEHNR), has been moved to the newly formed Department of Health and Human Services and is now a part of the Division of Epidemiology. Accordingly, DEHNR region statistics are no longer reported.

All users of this volume should be careful in the use of these data. Be sure to read "Interpretation of Death Rates" and "Caution About Use of Rates" located in the Technical Notes section of this volume.

A more exhaustive breakdown of cause-specific mortality by age, race, and sex is described in the companion volume, *North Carolina Detailed Mortality Statistics*. This and other publications (listed and described on the inside front cover of this publication) are available through the State Center for Health Statistics. If you would like copies of these publications you may contact the Center's Information Services Unit.

State Center for Health Statistics
Department of Health and Human Services
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Caution: Many of the death rates presented in this volume are based on small numbers and should be interpreted with caution. See Technical Notes.

NORTH CAROLINA'S LEADING CAUSES OF DEATH

Figure 1: NC Deaths by Five Leading Causes, 1996

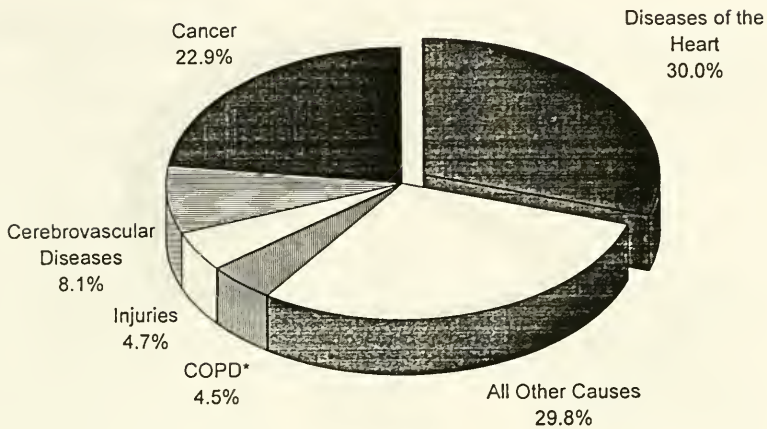
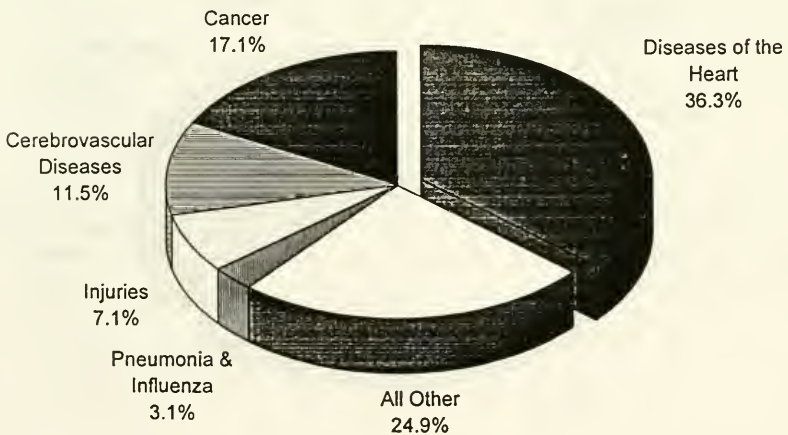


Figure 2: NC Deaths by Five Leading Causes, 1975



*Chronic obstructive pulmonary disease and allied conditions

Figure 3: NC Deaths by Five Leading Causes, 1955

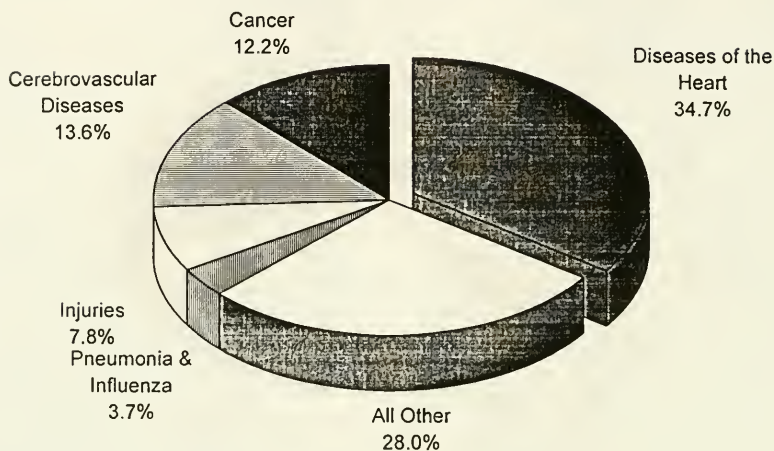
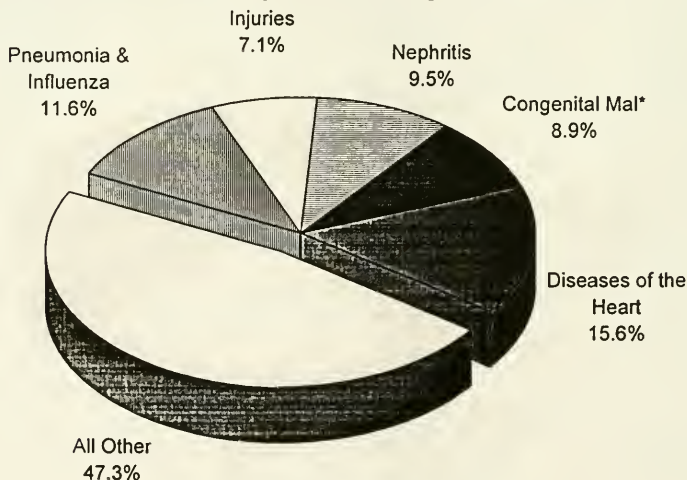


Figure 4: NC Deaths by Five Leading Causes, 1935



*Congenital Malformations

Note: Caution should be taken when comparing leading causes of death across time. The age distribution of the population has changed significantly since 1935. As the age distribution of a population changes over time, so do the leading causes of death. Observed increases in the proportion of deaths by heart disease and cancer are, in part, reflections of an increase in longevity of life since 1935. The association between age and leading causes of death become more apparent in the age-specific tables which follow.

Table 1
North Carolina Top 10 Leading Causes of Death
for Specified Age Groups, 1996*

All Ages

Rank	Cause	Number
1	Diseases of the heart.....	19,838
2	Cancer	15,170
3	Cerebrovascular disease.....	5,329
4	Injuries	3,104
	Motor vehicle injuries.....	1,499
	Other	1,605
5	COPD ¹	3,010
6	Pneumonia & influenza.....	2,523
7	Diabetes mellitus	1,816
8	Suicide	904
9	AIDS.....	826
10	Other diseases of arteries	805
	All other.....	12,863
	Total Deaths.....	66,188

Ages <1

Rank	Cause	Number
1	Originating in perinatal period ²	469
2	Congenital anomalies ³	201
3	Symptoms, signs, and ill-defined conditions (including SIDS)	116
4	Injuries	30
	Motor vehicle injuries.....	12
	Other	18
5	Homicide	16
6	Other diseases of the nervous system.....	10
7	Pneumonia and Influenza.....	10
8	Certain intestinal infections	9
9	Remainder of diseases of Respiratory system	9
10	Remainder of infectious and parasitic diseases	6
	Septicemia	6
	All other.....	80
	Total Deaths.....	962

Ages 1-4

Rank	Cause	Number
1	Injuries	62
	Motor vehicle injuries.....	25
	Other	37
2	Congenital anomalies ³	16
3	Homicide	16
4	Cancer	15
5	Symptoms, signs, and ill-defined conditions (including SIDS)	10
6	Diseases of the heart.....	5
7	Septicemia	4
8	All other infectious & parasitic diseases	3
9	Cerebrovascular disease.....	2
10	COPD ¹	2
	Originating in perinatal period ²	2
	Pneumonia and influenza	2
	All other.....	29
	Total Deaths	168

Ages 5-14

Rank	Cause	Number
1	Injuries	126
	Motor vehicle injuries.....	79
	Other	49
2	Cancer	28
3	Congenital anomalies ³	17
4	Diseases of the heart.....	15
5	Homicide.....	14
6	Suicide	7
7	AIDS.....	5
8	Pneumonia & influenza.....	5
9	Meningococcal infection	4
10	Symptoms, signs, and ill-defined conditions (SIDS)	3
	All other.....	31
	Total Deaths	255

* Leading causes of death are generated from a list of 43 causes of death. For deaths under one year of age, a list of 27 causes of death was used. See Appendices B and C respectively for the ICD-9 codes for these lists of causes. These are standard cause-of-death categories developed by the National Center for Health Statistics to promote comparability in analyses of mortality.

¹Chronic obstructive pulmonary disease and allied conditions.

²Certain conditions originating in the perinatal period.

³Birth defects and other related conditions.

Table 1 (cont'd)
North Carolina Top 10 Leading Causes of Death
for Specified Age Groups, 1996

Ages 15-24

Rank	Cause	Number
1	Injuries	466
	Motor vehicle injuries.....	365
	Other.....	101
2	Homicide.....	179
3	Suicide	139
4	Cancer	37
5	Diseases of the heart.....	33
6	AIDS.....	20
7	Congenital anomalies ²	15
8	Symptoms, signs, and ill-defined conditions (including SIDS)	13
9	COPD ¹	9
10	Pneumonia and Influenza.....	8
	All other.....	89
	Total Deaths	1008

Ages 25-44

Rank	Cause	Number
1	Injuries	833
	Motor vehicle injuries.....	505
	Other.....	328
2	Cancer	613
3	AIDS.....	601
4	Diseases of the heart.....	544
5	Suicide	349
6	Homicide.....	298
7	Cerebrovascular diseases.....	120
8	Chronic liver disease	108
9	Diabetes mellitus	83
10	Pneumonia & influenza.....	55
	All other.....	625
	Total Deaths	4229

Ages 45-64

Rank	Cause	Number
1	Cancer	4,173
2	Diseases of the heart.....	3,462
3	Cerebrovascular diseases	590
4	Injuries	534
	Motor vehicle injuries.....	254
	Other.....	280
5	COPD ¹	468
6	Diabetes mellitus	434
7	Chronic liver disease	316
8	Suicide	236
9	Pneumonia & influenza.....	198
10	AIDS.....	173
	All other.....	1,807
	Total Deaths	12,391

Ages 65+

Rank	Cause	Number
1	Diseases of the heart.....	15,759
2	Cancer	10,301
3	Cerebrovascular diseases	4,599
4	COPD ¹	2,503
5	Pneumonia & influenza.....	2,245
6	Diabetes mellitus	1,291
7	Injuries	1,053
	Motor vehicle injuries.....	261
	Other.....	792
8	Other diseases of the heart	660
9	Nephritis.....	594
10	Septicemia	495
	All other.....	7,675
	Total Deaths	47,175

¹Chronic obstructive pulmonary disease and allied conditions.

²Birth defects and other related conditions.

Table 2
North Carolina Top 10 Leading Causes of Death
for Racial Groups, 1996

White		
Rank	Cause	Number
1	Diseases of the heart.....	15,493
2	Cancer	11,787
3	Cerebrovascular disease.....	3,984
4	COPD ¹	2,619
5	Injuries	2,282
	Motor vehicle injuries.....	1,077
	Other.....	1,205
6	Pneumonia & influenza.....	2,092
7	Diabetes mellitus	1,146
8	Suicide	798
9	Other diseases of the heart	662
10	Chronic liver disease	509
	All other.....	8,912
	Total Deaths	50,284

Black		
Rank	Cause	Number
1	Diseases of the heart.....	4,190
2	Cancer	3,242
3	Cerebrovascular disease.....	1,295
4	Injuries	746
	Motor vehicle injuries.....	373
	Other.....	373
5	Diabetes mellitus	635
6	AIDS.....	570
7	Pneumonia & influenza.....	414
8	Homicide.....	367
9	COPD ¹	365
10	Nephritis.....	242
	All other.....	3,169
	Total Deaths	15,235

American Indian		
Rank	Cause	Number
1	Diseases of the heart.....	130
2	Cancer.....	102
3	Injuries.....	58
	Motor vehicle injuries.....	35
	Other.....	23
4	Cerebrovascular disease.....	40
5	Diabetes mellitus.....	33
6	COPD ¹	21
7	Pneumonia and influenza	13
8	Homicide	12
9	Suicide	10
10	Chronic liver disease	8
	Originating in perinatal period ²	8
	All other	86
	Total Deaths.....	521

Note: Caution should be taken when comparing the number of deaths across racial groupings. Population size varies considerably from one racial group to another. The number of deaths for each group is to a large extent a reflection of that population size.

¹Chronic obstructive pulmonary disease and allied conditions.

²Certain conditions originating in the perinatal period.

**STATE AND
COUNTY MORTALITY
TABLES AND FIGURES
FOR 1992-1996**

Table 3
Mortality Statistics Summary for 1996
All North Carolina Residents*

Cause of Death	Number of Deaths 1996	Death Rate 1996
All Causes	66,188	9.0
Diseases of Heart.....	19,838	270.9
Cerebrovascular Disease.....	5,329	72.8
Atherosclerosis.....	385	5.3
Cancer.....	15,170	207.2
Lip, Oral Cavity, and Pharynx	250	3.4
Stomach	346	4.7
Colon, Rectum, and Anus	1,502	20.5
Liver.....	268	3.7
Pancreas	722	9.9
Larynx.....	105	1.4
Trachea, Bronchus, and Lung.....	4,656	63.6
Malignant Melanoma.....	206	2.8
Bladder	254	3.5
Brain Tumors.....	357	4.9
Non-Hodgkins Lymphoma	530	7.2
Leukemia.....	543	7.4
Acquired Immune Deficiency Syndrome	826	11.3
Septicemia.....	647	8.8
Diabetes Mellitus.....	1,816	24.8
Pneumonia and Influenza	2,523	34.5
Chronic Obstructive Pulmonary Disease and Allied Conditions	3,010	41.1
Chronic Liver Disease and Cirrhosis	690	9.4
Nephritis, Nephrotic Syndrome, and Nephrosis	710	9.7
Unintentional Motor Vehicle Injuries	1,499	20.5
All Other Unintentional Injuries and Adverse Effects	1,605	21.9
Suicide.....	904	12.3
Homicide	667	9.1

Table 4
Sex-Specific Mortality Statistics Summary for 1996
North Carolina Male and Female Residents*

Cause of Death	Number of Deaths 1996	Death Rate 1996
Cancer		
Female Breast.....	1,141	30.2
Cervix Uteri.....	149	3.9
Ovary and Other Uterine Adnexa	345	9.1
Prostate	1,020	28.8

Note: The death rates in Table 4 cannot be compared to those in Table 3 because the denominators are sex-specific. Therefore, in ranking the causes of death—for example, in ranking the leading cancer sites—one must use the observed numbers of deaths.

*See Appendix A for a listing of Cause of Death codes.

TABLE - 5
MORTALITY STATISTICS FOR 1996
NORTH CAROLINA RESIDENTS
GENERAL MORTALITY

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
NORTH CAROLINA	66188	9.0	316153	8.9	8.5

COUNTIES

1 ALAMANCE	1192	10.1	5823	10.2	8.3
2 ALEXANDER	237	7.7	1182	8.0	7.9
3 ALLEGHANY	141	14.7	629	13.0	8.1
4 ANSON	294	12.4	1398	11.7	9.5
5 ASHE	279	11.9	1368	11.9	8.1
6 AVERY	187	12.3	830	11.0	8.5
7 BEAUFORT	551	12.8	2663	12.3	10.0
8 BERTIE	286	13.9	1240	12.1	10.3
9 BLADEN	374	12.4	1781	12.1	10.2
10 BRUNSWICK	636	10.1	2844	9.7	8.4
11 BUNCOMBE	2194	11.5	10028	10.8	8.0
12 BURKE	764	9.3	3631	9.1	8.1
13 CABARRUS	1000	8.8	4686	8.7	7.9
14 CALDWELL	681	9.2	3233	8.8	8.2
15 CAMDEN	69	10.9	316	10.2	9.0
16 CARTERET	580	9.9	2736	9.6	8.2
17 CASWELL	226	10.5	1125	10.6	8.7
18 CATAWBA	1160	9.1	5465	8.8	8.4
19 CHATHAM	422	9.5	2007	9.5	7.8
20 CHEROKEE	283	12.8	1244	11.6	7.7
21 CHOWAN	169	11.9	875	12.5	8.8
22 CLAY	118	15.1	452	12.0	7.7
23 CLEVELAND	925	10.2	4587	10.4	9.0
24 COLUMBUS	592	11.4	2837	11.1	9.9
25 CRAVEN	769	8.8	3478	8.2	8.5
26 CUMBERLAND	1848	6.3	8721	6.0	9.2
27 CURRITUCK	133	8.1	736	9.6	9.4
28 DARE	192	7.2	974	7.8	8.1
29 DAVIDSON	1233	8.9	5796	8.6	8.1
30 DAVIE	304	9.9	1363	9.2	7.6
31 DUPLIN	472	10.8	2427	11.5	10.0
32 DURHAM	1705	8.7	8135	8.5	9.2
33 EDGECOMBE	620	11.1	3148	11.1	10.7
34 FORSYTH	2507	8.8	12690	9.2	8.4
35 FRANKLIN	403	9.4	1961	9.7	8.9
36 GASTON	1824	10.2	8706	9.8	9.4
37 GATES	115	11.7	540	11.1	9.7
38 GRAHAM	94	12.5	442	12.0	8.7
39 GRANVILLE	438	10.4	2036	10.0	9.5
40 GREENE	172	10.0	725	8.8	8.2
41 GUILFORD	3372	8.9	16237	8.9	8.4
42 HALIFAX	705	12.5	3330	11.7	10.1
43 HARNETT	698	8.8	3331	8.9	9.0
44 HAYWOOD	626	12.4	2794	11.3	7.2
45 HENDERSON	1028	13.3	4829	12.9	7.5

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

Note: Death rates in this table are per 1,000 population while cause-specific death rates are per 100,000 population.

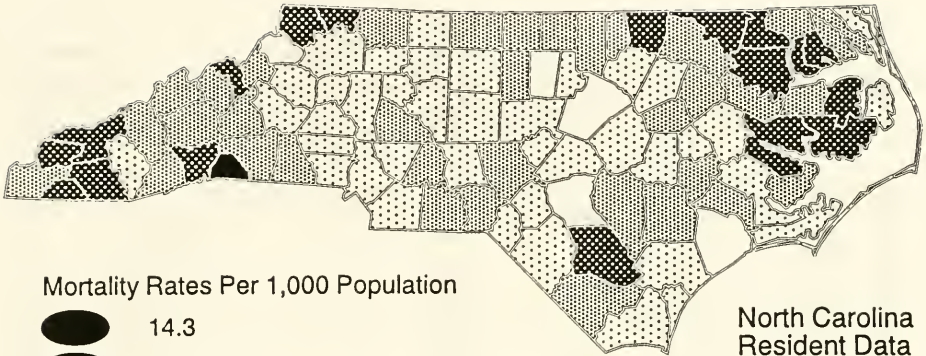
MORTALITY STATISTICS FOR 1996, NORTH CAROLINA RESIDENTS
GENERAL MORTALITY, CONT'D

COUNTIES (CONT'D)	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
46 HERTFORD	285	12.8	1370	12.2	10.2
47 HOKE	223	7.9	1014	7.8	9.1
48 HYDE	60	11.6	333	12.6	9.5
49 IREDELL	1004	9.5	4830	9.5	8.5
50 JACKSON	286	9.8	1299	9.2	7.5
51 JOHNSTON	936	9.4	4321	9.4	9.0
52 JONES	119	12.8	545	11.5	9.9
53 LEE	428	9.0	2132	9.5	8.7
54 LENOIR	665	11.2	3285	11.2	9.8
55 LINCOLN	491	8.6	2298	8.4	8.3
56 MCDOWELL	383	10.0	1831	9.9	8.0
57 MACON	333	12.3	1606	12.5	7.0
58 MADISON	198	10.9	1009	11.5	8.0
59 MARTIN	302	11.7	1426	11.0	9.4
60 MECKLENBURG	4175	7.0	20319	7.2	8.4
61 MITCHELL	190	13.0	905	12.4	8.2
62 MONTGOMERY	249	10.2	1142	9.6	8.8
63 MOORE	773	11.3	3667	11.3	7.4
64 NASH	815	9.5	3956	9.6	9.2
65 NEW HANOVER	1235	8.6	5935	8.8	8.2
66 NORTHAMPTON	290	13.9	1302	12.6	9.5
67 ONSLOW	689	4.6	3260	4.4	9.0
68 ORANGE	620	5.8	2973	5.7	7.2
69 PAMLICO	139	11.6	636	10.8	7.8
70 PASQUOTANK	360	10.6	1691	10.2	9.0
71 PENDER	338	9.4	1622	9.7	8.5
72 PERQUIMANS	139	12.9	656	12.4	8.6
73 PERSON	351	10.8	1641	10.4	8.7
74 PITT	952	8.0	4713	8.1	9.4
75 POLK	232	14.3	1111	14.3	7.5
76 RANDOLPH	964	8.1	4701	8.3	7.8
77 RICHMOND	531	11.6	2609	11.5	10.1
78 ROBESON	1055	9.4	5257	9.6	10.4
79 ROCKINGHAM	963	10.8	4688	10.7	8.9
80 ROWAN	1282	10.6	6196	10.6	8.5
81 RUTHERFORD	691	11.6	3322	11.3	8.8
82 SAMPSON	576	11.2	2799	11.2	9.5
83 SCOTLAND	328	9.4	1688	9.7	10.2
84 STANLY	594	10.9	2772	10.3	8.6
85 STOKES	335	7.9	1735	8.6	8.3
86 SURRY	726	11.0	3393	10.6	8.3
87 SWAIN	141	11.9	722	12.5	9.8
88 TRANSYLVANIA	307	11.1	1415	10.5	6.8
89 TYRRELL	51	13.9	229	12.0	8.5
90 UNION	760	7.4	3429	7.2	8.5
91 VANCE	486	12.0	2291	11.5	10.8
92 WAKE	3009	5.6	14037	5.6	7.6
93 WARREN	217	11.9	1073	12.0	8.6
94 WASHINGTON	145	10.7	748	10.8	9.3
95 WATAUGA	265	6.6	1232	6.3	6.5
96 WAYNE	1009	9.0	4701	8.6	9.4
97 WILKES	592	9.4	2779	9.0	7.8
98 WILSON	749	10.9	3719	11.0	10.3
99 YADKIN	340	9.8	1574	9.5	7.6
100 YANCEY	194	11.9	837	10.5	7.2

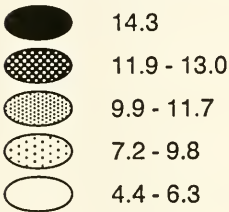
*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

STATE CENTER FOR HEALTH STATISTICS
DEPARTMENT OF HEALTH AND HUMAN SERVICES

General Mortality



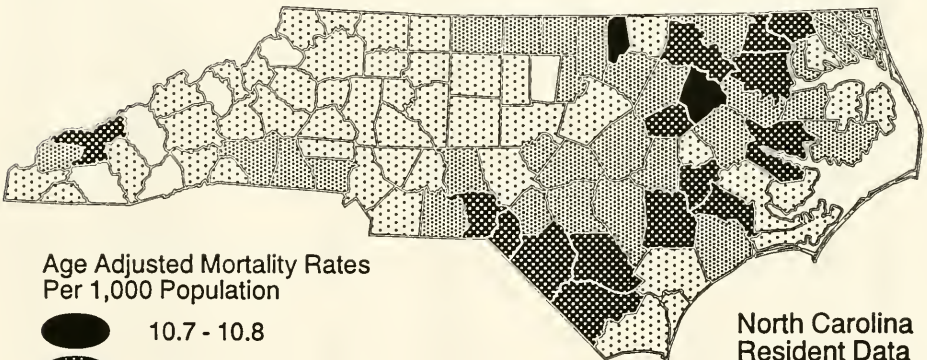
Mortality Rates Per 1,000 Population



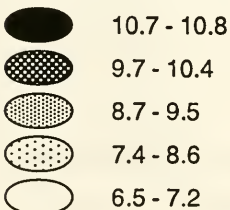
North Carolina
Resident Data
1992-1996

Figure 5.A

General Mortality



Age Adjusted Mortality Rates
Per 1,000 Population



North Carolina
Resident Data
1992-1996

Figure 5.B

TABLE - 6
MORTALITY STATISTICS FOR 1996
NORTH CAROLINA RESIDENTS
DISEASES OF THE HEART

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
NORTH CAROLINA	19838	270.9	96663	273.3	258.8

COUNTIES

1	ALAMANCE	327	277.5	1760	309.3	241.9
2	ALEXANDER	73	238.7	388	263.2	260.3
3	ALLEGHANY	41	426.6	199	411.5	242.6
4	ANSON	100	420.3	488	409.7	312.5
5	ASHE	92	391.8	422	368.6	234.0
6	AVERY	73	479.3	325	430.5	318.8
7	BEAUFORT	177	409.6	910	422.0	327.8
8	BERTIE	86	418.9	378	368.2	304.8
9	BLADEN	114	378.9	532	361.3	296.0
10	BRUNSWICK	187	297.5	879	299.7	259.8
11	BUNCOMBE	628	329.1	3011	324.3	228.5
12	BURKE	213	258.2	1166	292.4	254.2
13	CABARRUS	318	279.9	1556	288.0	258.9
14	CALDWELL	228	307.0	1083	296.5	271.5
15	CAMDEN	17	267.5	84	271.8	237.7
16	CARTERET	198	339.4	858	302.4	253.4
17	CASWELL	77	359.0	349	328.8	261.2
18	CATAWBA	318	248.3	1580	254.0	241.5
19	CHATHAM	131	295.2	611	289.4	229.7
20	CHEROKEE	93	421.4	436	407.0	253.1
21	CHOWAN	54	381.6	265	378.3	259.2
22	CLAY	38	484.7	143	378.4	228.3
23	CLEVELAND	333	368.7	1656	376.0	315.8
24	COLUMBUS	226	435.9	989	388.3	336.4
25	Craven	221	253.5	1009	237.7	248.7
26	CUMBERLAND	499	169.6	2480	170.5	288.5
27	CURRITUCK	40	244.3	203	263.5	256.6
28	DARE	64	241.1	290	233.1	242.1
29	DAVIDSON	398	286.9	1996	295.9	278.7
30	DAVIE	101	330.2	451	305.8	245.4
31	DUPLIN	142	326.2	716	339.6	286.3
32	DURHAM	475	243.6	2140	223.6	243.1
33	EDGECOMBE	178	317.6	934	330.6	315.3
34	FORSYTH	735	258.6	3674	265.8	238.4
35	FRANKLIN	134	313.5	573	282.1	254.0
36	GASTON	580	323.7	2953	331.8	316.8
37	GATES	30	304.1	176	362.5	310.6
38	GRAHAM	21	278.6	119	322.8	222.1
39	GRANVILLE	125	298.2	609	299.2	281.6
40	GREENE	49	285.2	225	273.1	249.8
41	GUILFORD	898	237.7	4610	251.9	235.0
42	HALIFAX	221	391.0	1120	393.2	328.5
43	HARNETT	204	256.6	1042	277.9	280.2
44	HAYWOOD	208	410.8	949	384.3	234.0
45	HENDERSON	301	388.1	1478	394.3	213.7

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

MORTALITY STATISTICS FOR 1996, NORTH CAROLINA RESIDENTS
DISEASES OF THE HEART, CONT'D

COUNTIES (CONT'D)	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
46 HERTFORD	81	364.6	407	363.4	288.9
47 HOKE	60	213.2	282	216.1	266.2
48 HYDE	31	597.2	123	465.1	331.8
49 IREDELL	303	285.2	1519	300.2	261.8
50 JACKSON	87	297.6	412	290.6	230.8
51 JOHNSTON	305	307.4	1420	307.8	294.6
52 JONES	28	300.4	164	346.5	292.9
53 LEE	129	272.1	632	280.5	254.5
54 LENOIR	213	359.4	978	332.7	283.7
55 LINCOLN	161	283.4	736	270.0	264.9
56 MCDOWELL	100	261.0	596	322.9	250.8
57 MACON	110	406.7	529	411.6	211.4
58 MADISON	50	274.8	289	328.2	220.7
59 MARTIN	95	368.8	446	345.3	285.2
60 MECKLENBURG	1122	189.0	5444	193.3	231.8
61 MITCHELL	62	423.2	293	402.0	247.8
62 MONTGOMERY	65	266.6	376	316.2	284.0
63 MOORE	214	314.1	1133	349.6	213.6
64 NASH	267	310.4	1239	299.9	285.9
65 NEW HANOVER	404	281.7	1848	273.1	253.1
66 NORTHAMPTON	95	455.5	403	389.4	281.3
67 ONSLOW	193	128.5	939	127.2	292.1
68 ORANGE	165	155.6	821	158.3	204.1
69 PAMLICO	34	283.1	172	292.9	200.1
70 PASQUOTANK	120	354.5	549	332.1	284.3
71 PENDER	114	316.9	520	310.0	268.3
72 PERQUIMANS	34	316.1	210	396.5	262.4
73 PERSON	113	347.5	507	321.5	261.1
74 PITT	250	209.7	1227	211.5	251.2
75 POLK	59	364.3	340	437.2	200.4
76 RANDOLPH	329	277.1	1553	273.3	255.9
77 RICHMOND	183	399.2	880	388.4	333.4
78 ROBESON	293	261.6	1576	287.2	316.7
79 ROCKINGHAM	285	319.3	1461	333.4	268.3
80 ROWAN	444	366.9	2021	345.9	267.2
81 RUTHERFORD	224	377.5	1126	384.3	285.5
82 SAMPSON	156	302.9	851	341.1	282.0
83 SCOTLAND	107	305.5	573	331.0	349.4
84 STANLY	182	333.4	935	348.7	283.5
85 STOKES	95	225.0	540	269.2	257.0
86 SURRY	247	375.0	1114	346.4	264.3
87 SWAIN	51	430.5	244	423.9	313.4
88 TRANSYLVANIA	108	391.9	472	349.9	214.7
89 TYRRELL	17	463.1	82	430.7	287.4
90 UNION	258	252.7	1164	245.5	295.5
91 VANCE	136	334.8	701	351.6	324.1
92 WAKE	828	153.6	3851	154.6	218.2
93 WARREN	55	302.5	303	339.5	228.6
94 WASHINGTON	49	362.9	288	417.3	349.6
95 WATAUGA	87	215.1	431	219.7	226.5
96 WAYNE	305	271.4	1459	266.4	296.9
97 WILKES	180	286.8	859	279.5	237.9
98 WILSON	239	349.1	1082	320.5	295.2
99 YADKIN	101	290.8	482	292.2	224.4
100 YANCEY	49	301.6	246	307.7	201.8

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

STATE CENTER FOR HEALTH STATISTICS
DEPARTMENT OF HEALTH AND HUMAN SERVICES

Diseases of the Heart

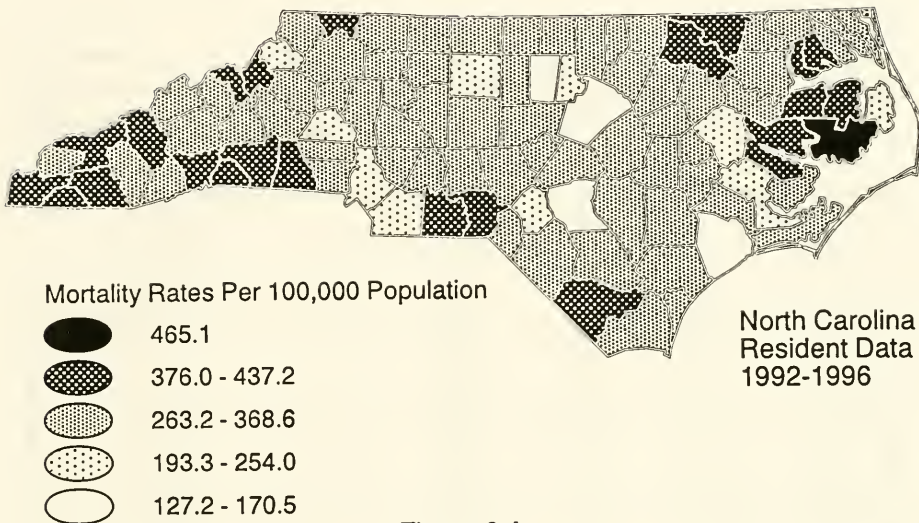


Figure 6.A

Diseases of the Heart

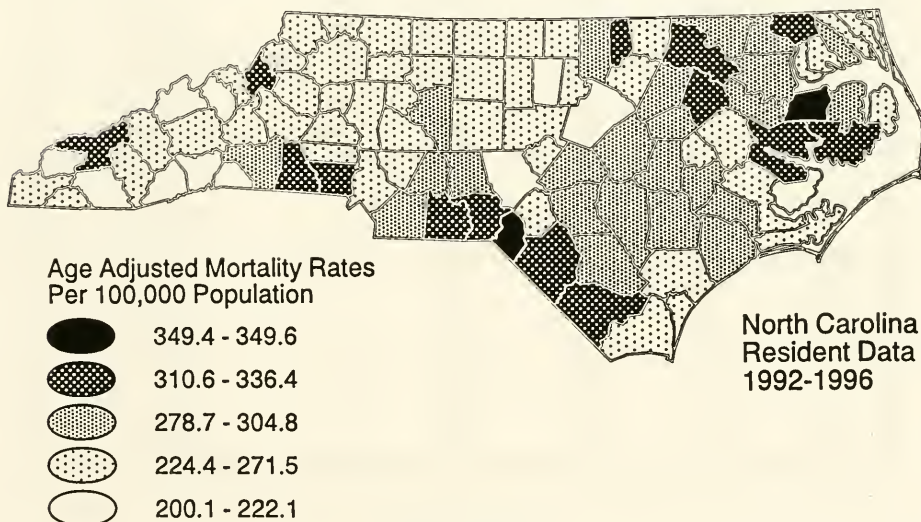


Figure 6.B

TABLE - 7
MORTALITY STATISTICS FOR 1996
NORTH CAROLINA RESIDENTS
CEREBROVASCULAR DISEASE

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
NORTH CAROLINA	5329	72.8	25063	70.9	66.3

COUNTIES

1	ALAMANCE	102	86.6	499	87.7	67.2
2	ALEXANDER	11	36.0	67	45.4	45.3
3	ALLEGHANY	10	104.1	52	107.5	58.8
4	ANSON	36	151.3	154	129.3	95.3
5	ASHE	19	80.9	99	86.5	52.7
6	AVERY	9	59.1	30	39.7	29.3
7	BEAUFORT	36	83.3	200	92.7	70.7
8	BERTIE	23	112.0	102	99.3	82.8
9	BLADEN	40	132.9	176	119.5	96.3
10	BRUNSWICK	43	68.4	175	59.7	53.5
11	BUNCOMBE	203	106.4	781	84.1	57.0
12	BURKE	40	48.5	207	51.9	44.9
13	CABARRUS	64	56.3	282	52.2	46.4
14	CALDWELL	57	76.8	252	69.0	63.2
15	CAMDEN	4	62.9	25	80.9	72.4
16	CARTERET	39	66.8	184	64.9	54.8
17	CASWELL	18	83.9	97	91.4	72.5
18	CATAWBA	112	87.5	439	70.6	66.9
19	CHATHAM	41	92.4	163	77.2	59.8
20	CHEROKEE	15	68.0	52	48.5	28.2
21	CHOWAN	15	106.0	77	109.9	71.9
22	CLAY	5	63.8	22	58.2	33.9
23	CLEVELAND	74	81.9	370	84.0	70.3
24	COLUMBUS	42	81.0	205	80.5	69.4
25	CRAVEN	63	72.3	263	61.9	65.1
26	CUMBERLAND	98	33.3	487	33.5	57.8
27	CURRITUCK	3	18.3	45	58.4	57.7
28	DARE	14	52.7	66	53.0	56.7
29	DAVIDSON	100	72.1	451	66.9	63.1
30	DAVIE	24	78.5	101	68.5	53.5
31	DUPLIN	43	98.8	268	127.1	105.3
32	DURHAM	100	51.3	557	58.2	62.0
33	EDGECOMBE	65	116.0	291	103.0	97.5
34	FORSYTH	186	65.4	1034	74.8	65.2
35	FRANKLIN	26	60.8	144	70.9	62.9
36	GASTON	134	74.8	574	64.5	61.2
37	GATES	12	121.7	39	80.3	69.9
38	GRAHAM	5	66.3	21	57.0	38.1
39	GRANVILLE	32	76.3	159	78.1	73.3
40	GREENE	18	104.8	63	76.5	69.1
41	GUILFORD	327	86.6	1421	77.6	70.4
42	HALIFAX	64	113.2	293	102.9	84.5
43	HARNETT	50	62.9	194	51.7	51.8
44	HAYWOOD	48	94.8	190	76.9	46.0
45	HENDERSON	90	116.0	371	99.0	50.9

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

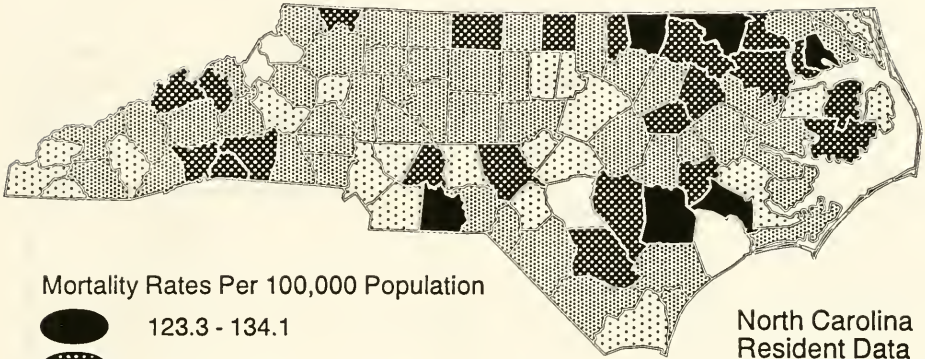
MORTALITY STATISTICS FOR 1996, NORTH CAROLINA RESIDENTS
CEREBROVASCULAR DISEASE, CONT'D

COUNTIES (CONT'D)	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
46 HERTFORD	21	94.5	121	108.0	84.6
47 HOKE	16	56.9	75	57.5	71.1
48 HYDE	4	77.1	28	105.9	74.3
49 IREDELL	86	81.0	419	82.8	70.7
50 JACKSON	23	78.7	68	48.0	36.4
51 JOHNSTON	77	77.6	346	75.0	71.8
52 JONES	9	96.5	59	124.7	105.9
53 LEE	21	44.3	136	60.4	54.4
54 LENOIR	70	118.1	348	118.4	100.9
55 LINCOLN	32	56.3	188	69.0	68.1
56 MCDOWELL	32	83.5	142	76.9	57.3
57 MACON	26	96.1	114	88.7	44.5
58 MADISON	15	82.4	93	105.6	66.9
59 MARTIN	23	89.3	93	72.0	59.5
60 MECKLENBURG	318	53.6	1576	56.0	67.1
61 MITCHELL	8	54.6	56	76.8	44.4
62 MONTGOMERY	15	61.5	68	57.2	50.4
63 MOORE	74	108.6	373	115.1	67.9
64 NASH	60	69.7	322	77.9	74.0
65 NEW HANOVER	103	71.8	518	76.5	70.8
66 NORTHAMPTON	24	115.1	129	124.7	88.4
67 ONSLOW	43	28.6	165	22.4	50.4
68 ORANGE	67	63.2	242	46.7	59.2
69 PAMLICO	9	74.9	51	86.9	57.4
70 PASQUOTANK	30	88.6	124	75.0	61.9
71 PENDER	33	91.7	134	79.9	69.8
72 PERQUIMANS	19	176.6	71	134.1	85.9
73 PERSON	39	119.9	177	112.2	88.0
74 PITT	84	70.4	422	72.7	85.9
75 POLK	20	123.5	87	111.9	48.5
76 RANDOLPH	72	60.6	366	64.4	60.1
77 RICHMOND	37	80.7	206	90.9	77.1
78 ROBESON	78	69.6	424	77.3	85.3
79 ROCKINGHAM	89	99.7	441	100.6	78.6
80 ROWAN	96	79.3	542	92.8	69.6
81 RUTHERFORD	71	119.7	292	99.7	72.3
82 SAMPSON	57	110.7	280	112.2	90.6
83 SCOTLAND	25	71.4	133	76.8	80.6
84 STANLY	70	128.2	300	111.9	88.4
85 STOKES	35	82.9	148	73.8	69.9
86 SURRY	58	88.1	272	84.6	63.1
87 SWAIN	3	25.3	47	81.6	58.3
88 TRANSYLVANIA	22	79.8	105	77.8	45.6
89 TYRRELL	4	109.0	20	105.0	67.5
90 UNION	46	45.1	232	48.9	59.3
91 VANCE	52	128.0	217	108.9	98.7
92 WAKE	265	49.1	1158	46.5	66.0
93 WARREN	23	126.5	110	123.3	79.1
94 WASHINGTON	6	44.4	40	58.0	48.2
95 WATAUGA	7	17.3	64	32.6	32.2
96 WAYNE	71	63.2	362	66.1	74.6
97 WILKES	60	95.6	267	86.9	72.7
98 WILSON	81	118.3	359	106.3	97.7
99 YADKIN	23	66.2	113	68.5	51.6
100 YANCEY	17	104.6	78	97.6	62.5

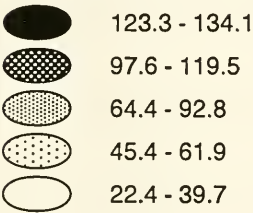
*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

STATE CENTER FOR HEALTH STATISTICS
DEPARTMENT OF HEALTH AND HUMAN SERVICES

Cerebrovascular Disease



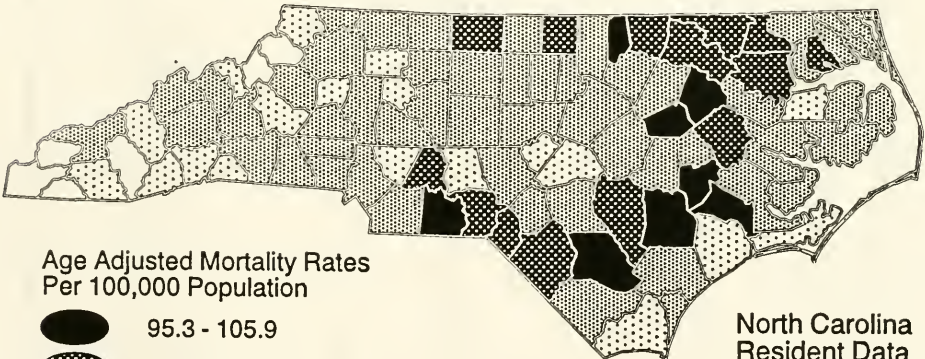
Mortality Rates Per 100,000 Population



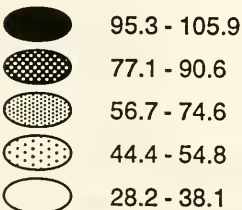
North Carolina
Resident Data
1992-1996

Figure 7.A

Cerebrovascular Disease



Age Adjusted Mortality Rates
Per 100,000 Population



North Carolina
Resident Data
1992-1996

Figure 7.B

TABLE - 8
MORTALITY STATISTICS FOR 1996
NORTH CAROLINA RESIDENTS
ATHEROSCLEROSIS

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
NORTH CAROLINA	385	5.3	2029	5.7	5.3

COUNTIES

1	ALAMANCE	9	7.6	59	10.4	7.6
2	ALEXANDER	0	0.0	0	0.0	0.0
3	ALLEGHANY	0	0.0	1	2.1	1.4
4	ANSON	0	0.0	2	1.7	1.1
5	ASHE	2	8.5	6	5.2	2.9
6	AVERY	0	0.0	3	4.0	2.7
7	BEAUFORT	1	2.3	4	1.9	1.4
8	BERTIE	1	4.9	16	15.6	12.5
9	BLADEN	2	6.6	21	14.3	11.1
10	BRUNSWICK	6	9.5	24	8.2	7.7
11	BUNCOMBE	16	8.4	94	10.1	6.5
12	BURKE	1	1.2	13	3.3	2.9
13	CABARRUS	4	3.5	16	3.0	2.6
14	CALDWELL	3	4.0	11	3.0	2.7
15	CAMDEN	1	15.7	4	12.9	12.4
16	CARTERET	2	3.4	5	1.8	1.5
17	CASWELL	0	0.0	7	6.6	4.9
18	CATAWBA	7	5.5	26	4.2	4.0
19	CHATHAM	4	9.0	13	6.2	4.5
20	CHEROKEE	0	0.0	5	4.7	2.6
21	CHOWAN	2	14.1	22	31.4	18.8
22	CLAY	1	12.8	5	13.2	7.4
23	CLEVELAND	3	3.3	33	7.5	6.1
24	COLUMBUS	1	1.9	1	0.4	0.3
25	Craven	6	6.9	20	4.7	5.1
26	CUMBERLAND	6	2.0	49	3.4	6.3
27	CURRITUCK	2	12.2	17	22.1	22.4
28	DARE	0	0.0	10	8.0	8.7
29	DAVIDSON	1	0.7	13	1.9	1.8
30	DAVIE	0	0.0	6	4.1	3.2
31	DUPLIN	7	16.1	28	13.3	10.8
32	DURHAM	9	4.6	75	7.8	8.2
33	EDGECOMBE	2	3.6	25	8.9	8.1
34	FORSYTH	14	4.9	58	4.2	3.7
35	FRANKLIN	0	0.0	7	3.4	3.1
36	GASTON	6	3.3	27	3.0	2.8
37	GATES	0	0.0	7	14.4	12.5
38	GRAHAM	2	26.5	5	13.6	8.6
39	GRANVILLE	0	0.0	6	2.9	2.7
40	GREENE	11	64.0	23	27.9	24.9
41	GUILFORD	27	7.1	148	8.1	7.1
42	HALIFAX	7	12.4	22	7.7	6.0
43	HARNETT	5	6.3	14	3.7	3.7
44	HAYWOOD	8	15.8	12	4.9	2.8
45	HENDERSON	3	3.9	9	2.4	1.0

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

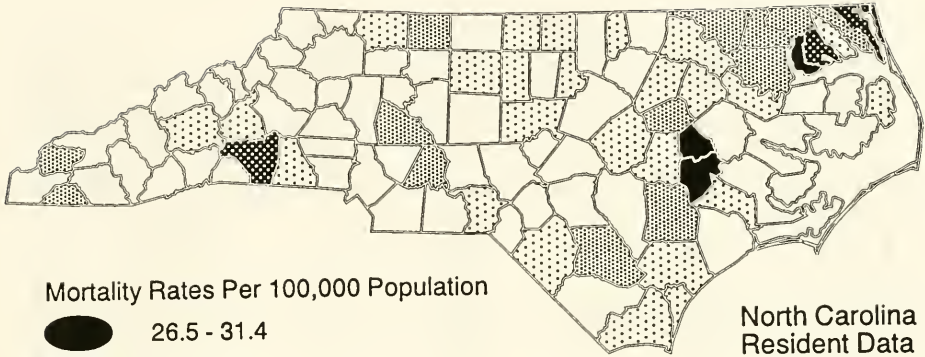
MORTALITY STATISTICS FOR 1996, NORTH CAROLINA RESIDENTS
ATHEROSCLEROSIS, CONT'D

COUNTIES (CONT'D)	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
46 HERTFORD	2	9.0	14	12.5	9.3
47 HOKE	1	3.6	4	3.1	3.8
48 HYDE	0	0.0	0	0.0	0.0
49 IREDELL	3	2.8	20	4.0	3.4
50 JACKSON	1	3.4	6	4.2	3.3
51 JOHNSTON	10	10.1	30	6.5	6.3
52 JONES	1	10.7	4	8.5	7.1
53 LEE	0	0.0	11	4.9	4.4
54 LENOIR	19	32.1	78	26.5	22.5
55 LINCOLN	4	7.0	13	4.8	4.7
56 MCDOWELL	4	10.4	15	8.1	6.0
57 MACON	1	3.7	3	2.3	1.3
58 MADISON	0	0.0	3	3.4	2.1
59 MARTIN	3	11.6	13	10.1	8.3
60 MECKLENBURG	16	2.7	82	2.9	3.5
61 MITCHELL	0	0.0	2	2.7	1.3
62 MONTGOMERY	0	0.0	3	2.5	2.3
63 MOORE	3	4.4	12	3.7	2.1
64 NASH	7	8.1	25	6.1	5.7
65 NEW HANOVER	13	9.1	45	6.6	6.2
66 NORTHAMPTON	3	14.4	13	12.6	8.7
67 ONSLOW	3	2.0	16	2.2	5.6
68 ORANGE	3	2.8	16	3.1	3.9
69 PAMLICO	0	0.0	2	3.4	2.4
70 PASQUOTANK	3	8.9	18	10.9	8.7
71 PENDER	1	2.8	10	6.0	5.1
72 PERQUIMANS	1	9.3	12	22.7	13.4
73 PERSON	2	6.2	13	8.2	6.3
74 PITT	3	2.5	18	3.1	3.6
75 POLK	0	0.0	2	2.6	0.9
76 RANDOLPH	4	3.4	17	3.0	2.8
77 RICHMOND	0	0.0	16	7.1	6.2
78 ROBESON	5	4.5	39	7.1	7.9
79 ROCKINGHAM	3	3.4	15	3.4	2.6
80 ROWAN	10	8.3	85	14.5	10.2
81 RUTHERFORD	15	25.3	67	22.9	15.3
82 SAMPSON	2	3.9	12	4.8	3.9
83 SCOTLAND	0	0.0	2	1.2	1.2
84 STANLY	4	7.3	37	13.8	10.8
85 STOKES	5	11.8	32	16.0	14.5
86 SURRY	9	13.7	35	10.9	7.8
87 SWAIN	2	16.9	3	5.2	4.1
88 TRANSYLVANIA	2	7.3	6	4.4	2.7
89 TYRRELL	0	0.0	0	0.0	0.0
90 UNION	2	2.0	7	1.5	1.9
91 VANCE	5	12.3	18	9.0	7.9
92 WAKE	11	2.0	48	1.9	2.8
93 WARREN	1	5.5	5	5.6	3.6
94 WASHINGTON	0	0.0	2	2.9	2.6
95 WATAUGA	1	2.5	6	3.1	3.0
96 WAYNE	5	4.4	39	7.1	8.2
97 WILKES	0	0.0	6	2.0	1.6
98 WILSON	5	7.3	44	13.0	11.9
99 YADKIN	4	11.5	9	5.5	4.0
100 YANCEY	1	6.2	4	5.0	2.8

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

STATE CENTER FOR HEALTH STATISTICS
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Atherosclerosis



Mortality Rates Per 100,000 Population

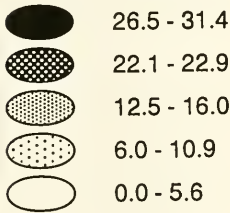
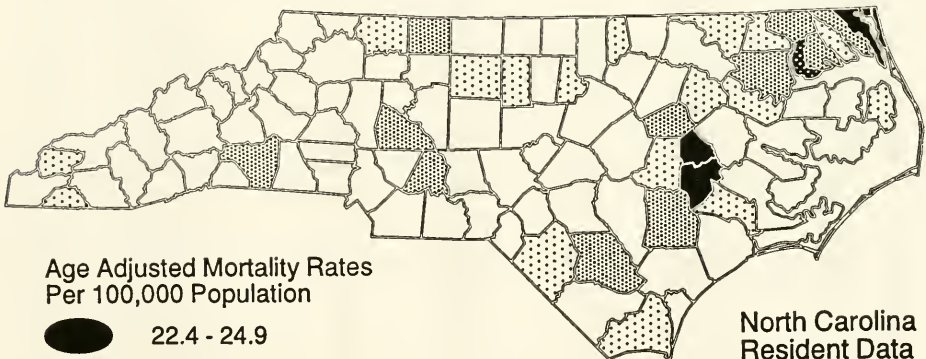


Figure 8.A

Atherosclerosis



Age Adjusted Mortality Rates Per 100,000 Population

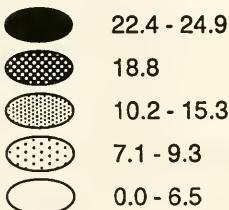


Figure 8.B

TABLE - 9
MORTALITY STATISTICS FOR 1996
NORTH CAROLINA RESIDENTS
CANCER - ALL SITES

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
NORTH CAROLINA	15170	207.2	72955	206.3	199.2

COUNTIES

1	ALAMANCE	309	262.3	1344	236.2	192.3
2	ALEXANDER	54	176.6	269	182.4	177.8
3	ALLEGHANY	37	385.0	149	308.1	200.3
4	ANSON	55	231.2	300	251.8	205.0
5	ASHE	60	255.5	297	259.4	178.7
6	AVERY	45	295.5	182	241.1	193.6
7	BEAUFORT	138	319.4	587	272.2	219.7
8	BERTIE	69	336.1	290	282.5	240.2
9	BLADEN	78	259.2	383	260.1	217.8
10	BRUNSWICK	165	262.5	742	253.0	202.0
11	BUNCOMBE	478	250.5	2343	252.4	193.3
12	BURKE	174	210.9	846	212.2	186.7
13	CABARRUS	236	207.8	1105	204.5	188.3
14	CALDWELL	147	197.9	755	206.7	196.1
15	CAMDEN	21	330.4	91	294.5	249.7
16	CARTERET	134	229.7	744	262.3	216.3
17	CASWELL	52	242.4	268	252.5	205.7
18	CATAWBA	275	214.8	1305	209.8	199.3
19	CHATHAM	90	202.8	464	219.8	182.7
20	CHEROKEE	68	308.1	299	279.1	187.7
21	CHOWAN	39	275.6	195	278.3	203.3
22	CLAY	32	408.2	127	336.0	213.5
23	CLEVELAND	191	211.5	907	206.0	179.4
24	COLUMBUS	131	252.6	622	244.2	212.5
25	Craven	194	222.5	861	202.8	210.4
26	CUMBERLAND	455	154.7	2060	141.7	220.1
27	CURRITUCK	40	244.3	208	270.0	257.2
28	DARE	48	180.8	263	211.4	207.4
29	DAVIDSON	282	203.3	1329	197.0	184.7
30	DAVIE	58	189.6	298	202.1	169.3
31	DUPLIN	110	252.7	547	259.4	224.8
32	DURHAM	396	203.1	1933	202.0	230.1
33	EDGECOMBE	139	248.0	670	237.2	230.9
34	FORSYTH	552	194.2	2920	211.2	198.6
35	FRANKLIN	100	234.0	439	216.1	204.2
36	GASTON	426	237.7	1971	221.5	213.7
37	GATES	25	253.4	120	247.2	213.0
38	GRAHAM	22	291.9	115	312.0	226.8
39	GRANVILLE	98	233.8	455	223.6	213.9
40	GREENE	38	221.2	170	206.3	190.6
41	GUILFORD	783	207.3	3801	207.7	199.8
42	HALIFAX	151	267.1	697	244.7	213.1
43	HARNETT	164	206.3	805	214.7	217.8
44	HAYWOOD	142	280.4	634	256.8	169.3
45	HENDERSON	243	313.3	1207	322.0	193.4

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

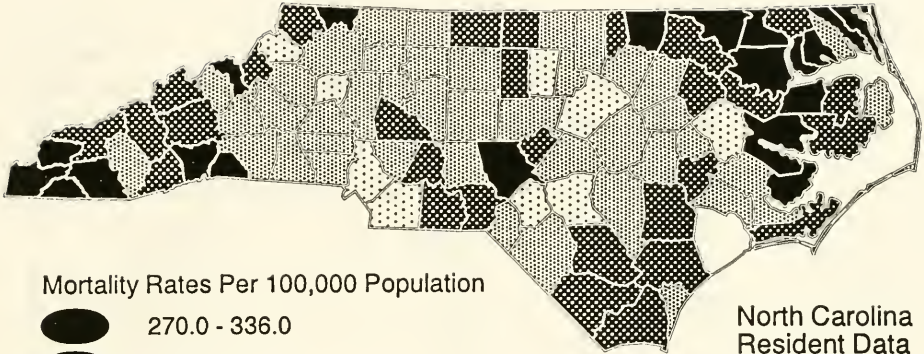
MORTALITY STATISTICS FOR 1996, NORTH CAROLINA RESIDENTS
CANCER - ALL SITES, CONT'D

COUNTIES (CONT'D)	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
46 HERTFORD	64	288.1	318	283.9	240.6
47 HOKE	47	167.0	228	174.7	208.5
48 HYDE	8	154.1	67	253.4	194.0
49 IREDELL	230	216.5	1133	223.9	198.8
50 JACKSON	59	201.8	280	197.5	170.2
51 JOHNSTON	204	205.6	975	211.3	201.7
52 JONES	31	332.5	107	226.1	194.6
53 LEE	111	234.2	537	236.6	212.5
54 LENOIR	141	237.9	733	249.3	215.2
55 LINCOLN	118	207.7	521	191.1	186.0
56 MCDOWELL	95	247.9	424	229.7	187.4
57 MACON	70	258.8	373	290.2	168.5
58 MADISON	51	280.3	222	252.1	190.0
59 MARTIN	59	229.0	322	249.3	209.9
60 MECKLENBURG	934	157.4	4724	167.7	201.9
61 MITCHELL	47	320.8	222	304.6	210.1
62 MONTGOMERY	55	225.6	239	201.0	185.3
63 MOORE	212	311.2	964	297.4	190.0
64 NASH	170	197.6	873	211.3	202.6
65 NEW HANOVER	285	198.7	1480	218.7	204.0
66 NORTHAMPTON	70	335.6	301	290.9	213.6
67 ONSLOW	157	104.5	744	100.8	219.0
68 ORANGE	146	137.7	748	144.2	189.4
69 PAMLICO	37	308.1	171	291.2	208.5
70 PASQUOTANK	80	236.4	385	232.9	214.6
71 PENDER	74	205.7	403	240.3	203.6
72 PERQUIMANS	39	362.6	157	296.4	209.8
73 PERSON	62	190.7	355	225.1	193.0
74 PITT	214	179.5	1011	174.3	207.7
75 POLK	57	352.0	252	324.0	177.8
76 RANDOLPH	243	204.7	1106	194.6	183.8
77 RICHMOND	101	220.3	540	238.4	208.7
78 ROBESON	236	210.7	1092	199.0	218.5
79 ROCKINGHAM	216	242.0	1085	247.6	206.7
80 ROWAN	283	233.9	1392	238.2	195.4
81 RUTHERFORD	142	239.3	686	234.2	187.9
82 SAMPSON	136	264.1	563	225.7	192.9
83 SCOTLAND	59	168.4	344	198.7	209.0
84 STANLY	137	251.0	648	241.7	204.7
85 STOKES	79	187.1	400	199.4	193.5
86 SURRY	146	221.7	740	230.1	185.1
87 SWAIN	29	244.8	144	250.1	200.0
88 TRANSYLVANIA	75	272.2	342	253.6	168.6
89 TYRRELL	11	299.6	49	257.4	182.4
90 UNION	168	164.6	791	166.9	193.9
91 VANCE	111	273.3	509	255.3	241.6
92 WAKE	750	139.1	3391	136.1	186.9
93 WARREN	50	275.0	263	294.7	207.5
94 WASHINGTON	48	355.5	203	294.2	251.8
95 WATAUGA	72	178.0	295	150.4	160.7
96 WAYNE	230	204.7	1059	193.4	208.8
97 WILKES	116	184.8	621	202.1	174.3
98 WILSON	140	204.5	761	225.4	208.7
99 YADKIN	77	221.7	365	221.3	177.6
100 YANCEY	44	270.8	184	230.1	163.7

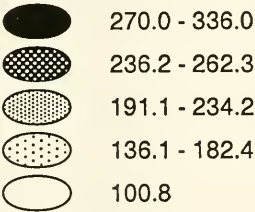
*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

STATE CENTER FOR HEALTH STATISTICS
DEPARTMENT OF HEALTH AND HUMAN SERVICES

Cancer - All Sites



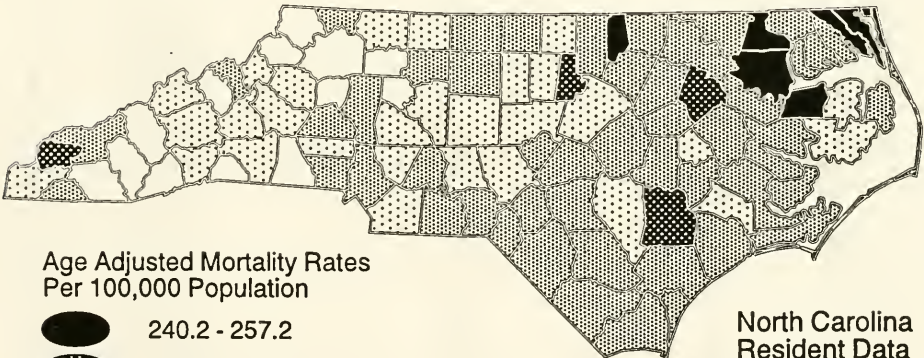
Mortality Rates Per 100,000 Population



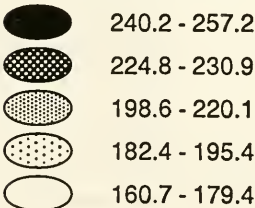
North Carolina
Resident Data
1992-1996

Figure 9.A

Cancer - All Sites



Age Adjusted Mortality Rates
Per 100,000 Population



North Carolina
Resident Data
1992-1996

Figure 9.B

TABLE - 10
MORTALITY STATISTICS FOR 1996
NORTH CAROLINA RESIDENTS
CANCER - COLON, RECTUM, AND ANUS

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
NORTH CAROLINA	1502	20.5	7382	20.9	20.0

COUNTIES

1 ALAMANCE	31	26.3	144	25.3	20.3
2 ALEXANDER	8	26.2	27	18.3	17.8
3 ALLEGHANY	5	52.0	11	22.7	12.6
4 ANSON	11	46.2	41	34.4	27.0
5 ASHE	4	17.0	27	23.6	15.2
6 AVERY	2	13.1	15	19.9	15.2
7 BEAUFORT	8	18.5	48	22.3	17.5
8 BERTIE	9	43.8	26	25.3	21.1
9 BLADEN	6	19.9	44	29.9	24.5
10 BRUNSWICK	17	27.0	85	29.0	23.7
11 BUNCOMBE	47	24.6	248	26.7	19.9
12 BURKE	12	14.5	85	21.3	18.7
13 CABARRUS	23	20.2	123	22.8	20.8
14 CALDWELL	8	10.8	68	18.6	17.1
15 CAMDEN	1	15.7	10	32.4	28.0
16 CARTERET	11	18.9	63	22.2	18.3
17 CASWELL	3	14.0	29	27.3	21.4
18 CATAWBA	37	28.9	163	26.2	24.8
19 CHATHAM	16	36.1	56	26.5	21.7
20 CHEROKEE	6	27.2	27	25.2	16.1
21 CHOWAN	8	56.5	32	45.7	32.9
22 CLAY	5	63.8	16	42.3	26.2
23 CLEVELAND	17	18.8	82	18.6	16.0
24 COLUMBUS	12	23.1	51	20.0	17.3
25 CRAVEN	14	16.1	88	20.7	21.6
26 CUMBERLAND	33	11.2	162	11.1	17.9
27 CURRITUCK	3	18.3	17	22.1	21.6
28 DARE	4	15.1	22	17.7	17.0
29 DAVIDSON	23	16.6	129	19.1	17.9
30 DAVIE	12	39.2	44	29.8	24.3
31 DUPLIN	16	36.8	59	28.0	24.1
32 DURHAM	44	22.6	193	20.2	22.2
33 EDGECOMBE	13	23.2	65	23.0	22.1
34 FORSYTH	58	20.4	292	21.1	19.6
35 FRANKLIN	11	25.7	44	21.7	20.4
36 GASTON	43	24.0	198	22.3	21.4
37 GATES	7	71.0	19	39.1	33.7
38 GRAHAM	3	39.8	8	21.7	15.0
39 GRANVILLE	7	16.7	40	19.7	19.0
40 GREENE	3	17.5	13	15.8	14.6
41 GUILFORD	74	19.6	388	21.2	20.1
42 HALIFAX	17	30.1	73	25.6	21.9
43 HARNETT	20	25.2	87	23.2	23.5
44 HAYWOOD	14	27.6	67	27.1	17.5
45 HENDERSON	25	32.2	127	33.9	19.7

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

MORTALITY STATISTICS FOR 1996, NORTH CAROLINA RESIDENTS
CANCER - COLON, RECTAL, AND ANUS, CONT'D

COUNTIES (CONT'D)	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
46 HERTFORD	7	31.5	41	36.6	29.8
47 HOKE	5	17.8	27	20.7	25.5
48 HYDE	2	38.5	11	41.6	31.6
49 IREDELL	18	16.9	122	24.1	21.1
50 JACKSON	7	23.9	24	16.9	13.7
51 JOHNSTON	19	19.2	95	20.6	19.5
52 JONES	4	42.9	14	29.6	25.2
53 LEE	9	19.0	56	24.9	22.3
54 LENOIR	23	38.8	90	30.6	26.3
55 LINCOLN	15	26.4	55	20.2	19.7
56 MCDOWELL	8	20.9	43	23.3	19.1
57 MACON	4	14.8	40	31.1	16.8
58 MADISON	6	33.0	17	19.3	14.0
59 MARTIN	7	27.2	38	29.4	25.0
60 MECKLENBURG	91	15.3	453	16.1	19.4
61 MITCHELL	3	20.5	18	24.7	16.4
62 MONTGOMERY	6	24.6	22	18.5	16.7
63 MOORE	28	41.1	120	37.0	22.8
64 NASH	16	18.6	80	19.4	18.6
65 NEW HANOVER	27	18.8	130	19.2	17.8
66 NORTHAMPTON	5	24.0	35	33.8	24.1
67 ONSLOW	10	6.7	74	10.0	22.5
68 ORANGE	20	18.9	72	13.9	18.2
69 PAMLICO	3	25.0	14	23.8	16.6
70 PASQUOTANK	13	38.4	51	30.8	27.1
71 PENDER	7	19.5	40	23.8	20.1
72 PERQUIMANS	5	46.5	14	26.4	17.8
73 PERSON	9	27.7	47	29.8	24.9
74 PITT	23	19.3	111	19.1	22.8
75 POLK	6	37.0	29	37.3	18.5
76 RANDOLPH	15	12.6	111	19.5	18.4
77 RICHMOND	12	26.2	70	30.9	27.0
78 ROBESON	16	14.3	105	19.1	20.9
79 ROCKINGHAM	17	19.0	103	23.5	19.4
80 ROWAN	25	20.7	134	22.9	18.2
81 RUTHERFORD	15	25.3	64	21.8	17.2
82 SAMPSON	16	31.1	58	23.2	19.6
83 SCOTLAND	6	17.1	38	21.9	22.9
84 STANLY	24	44.0	69	25.7	21.3
85 STOKES	5	11.8	29	14.5	14.1
86 SURRY	21	31.9	72	22.4	17.9
87 SWAIN	4	33.8	11	19.1	15.3
88 TRANSYLVANIA	7	25.4	35	25.9	17.2
89 TYRRELL	2	54.5	7	36.8	26.1
90 UNION	13	12.7	84	17.7	20.9
91 VANCE	14	34.5	41	20.6	19.0
92 WAKE	59	10.9	331	13.3	18.4
93 WARREN	7	38.5	28	31.4	21.9
94 WASHINGTON	3	22.2	23	33.3	28.0
95 WATAUGA	9	22.2	30	15.3	16.0
96 WAYNE	15	13.3	99	18.1	19.9
97 WILKES	11	17.5	59	19.2	16.6
98 WILSON	10	14.6	60	17.8	16.3
99 YADKIN	12	34.5	58	35.2	27.6
100 YANCEY	7	43.1	24	30.0	20.9

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

STATE CENTER FOR HEALTH STATISTICS
DEPARTMENT OF HEALTH AND HUMAN SERVICES

Cancer - Colon, Rectum and Anus

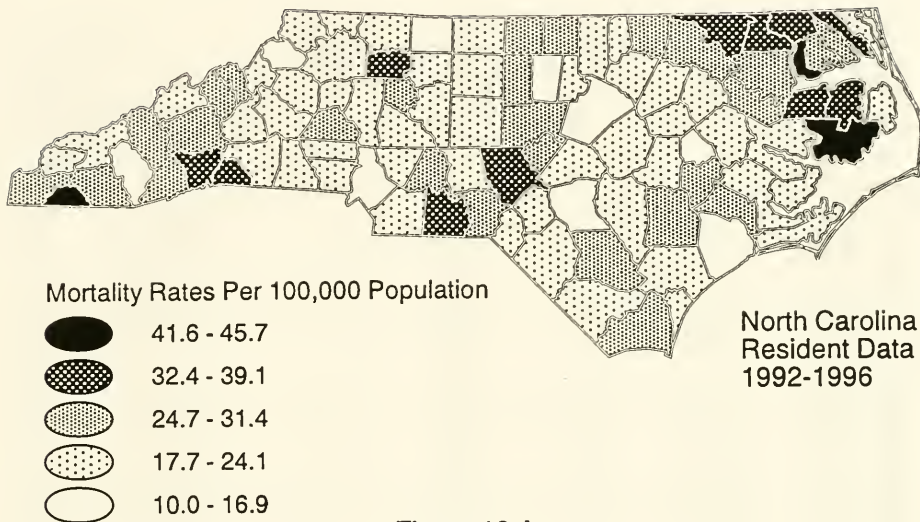


Figure 10.A

Cancer - Colon, Rectum and Anus

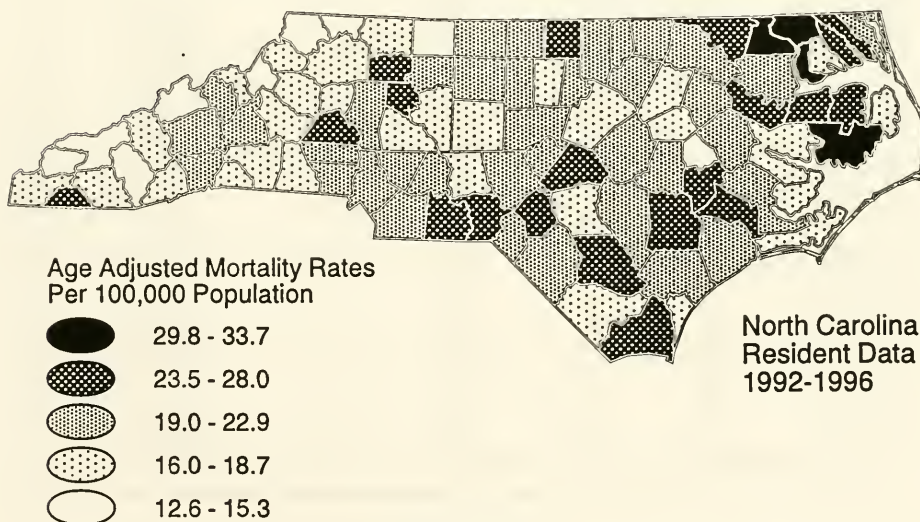


Figure 10.B

TABLE - 11
MORTALITY STATISTICS FOR 1996
NORTH CAROLINA RESIDENTS
CANCER - TRACHEA, BRONCHUS, AND LUNG

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
NORTH CAROLINA	4656	63.6	21856	61.8	60.2

COUNTIES

1 ALAMANCE	108	91.7	432	75.9	62.6
2 ALEXANDER	17	55.6	84	57.0	56.0
3 ALLEGHANY	11	114.5	46	95.1	64.9
4 ANSON	10	42.0	78	65.5	53.7
5 ASHE	20	85.2	92	80.4	55.8
6 AVERY	14	91.9	59	78.2	63.4
7 BEAUFORT	51	118.0	207	96.0	78.1
8 BERTIE	18	87.7	92	89.6	78.1
9 BLADEN	25	83.1	114	77.4	65.7
10 BRUNSWICK	56	89.1	247	84.2	64.5
11 BUNCOMBE	142	74.4	694	74.7	58.5
12 BURKE	57	69.1	258	64.7	56.9
13 CABARRUS	65	57.2	311	57.6	53.5
14 CALDWELL	46	61.9	247	67.6	61.9
15 CAMDEN	7	110.1	27	87.4	73.0
16 CARTERET	51	87.4	245	86.4	70.4
17 CASWELL	14	65.3	74	69.7	57.6
18 CATAWBA	77	60.1	402	64.6	61.2
19 CHATHAM	23	51.8	117	55.4	46.5
20 CHEROKEE	16	72.5	110	102.7	69.5
21 CHOWAN	14	98.9	59	84.2	60.9
22 CLAY	6	76.5	31	82.0	53.8
23 CLEVELAND	49	54.3	259	58.8	51.4
24 COLUMBUS	41	79.1	192	75.4	65.5
25 CRAVEN	48	55.1	249	58.7	60.1
26 CUMBERLAND	150	51.0	708	48.7	75.1
27 CURRITUCK	15	91.6	77	99.9	93.6
28 DARE	20	75.4	100	80.4	79.0
29 DAVIDSON	97	69.9	419	62.1	58.4
30 DAVIE	22	71.9	73	49.5	41.8
31 DUPLIN	41	94.2	159	75.4	66.0
32 DURHAM	122	62.6	583	60.9	72.4
33 EDGECOMBE	39	69.6	191	67.6	66.2
34 FORSYTH	164	57.7	873	63.1	60.7
35 FRANKLIN	32	74.9	130	64.0	61.0
36 GASTON	147	82.0	643	72.3	70.1
37 GATES	4	40.6	26	53.6	45.7
38 GRAHAM	8	106.1	40	108.5	81.0
39 GRANVILLE	31	73.9	134	65.8	63.6
40 GREENE	15	87.3	56	68.0	62.9
41 GUILFORD	260	68.8	1126	61.5	60.0
42 HALIFAX	45	79.6	192	67.4	59.3
43 HARNETT	37	46.5	231	61.6	62.9
44 HAYWOOD	47	92.8	199	80.6	53.5
45 HENDERSON	82	105.7	347	92.6	56.0

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

MORTALITY STATISTICS FOR 1996, NORTH CAROLINA RESIDENTS
CANCER - TRACHEA, BRONCHUS, AND LUNG, CONT'D

COUNTIES (CONT'D)	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
46 HERTFORD	17	76.5	94	83.9	71.9
47 HOKE	11	39.1	65	49.8	59.1
48 HYDE	0	0.0	21	79.4	62.4
49 IREDELL	67	63.1	336	66.4	59.4
50 JACKSON	21	71.8	89	62.8	54.4
51 JOHNSTON	65	65.5	332	72.0	68.9
52 JONES	11	118.0	38	80.3	68.2
53 LEE	37	78.1	151	67.0	59.3
54 LENOIR	40	67.5	220	74.8	64.0
55 LINCOLN	44	77.5	158	58.0	56.7
56 MCDOWELL	29	75.7	133	72.0	59.7
57 MACON	23	85.0	108	84.0	48.6
58 MADISON	14	76.9	60	68.1	52.7
59 MARTIN	17	66.0	105	81.3	69.1
60 MECKLENBURG	258	43.5	1307	46.4	57.0
61 MITCHELL	14	95.6	68	93.3	63.7
62 MONTGOMERY	16	65.6	74	62.2	57.7
63 MOORE	77	113.0	301	92.9	59.7
64 NASH	51	59.3	249	60.3	57.9
65 NEW HANOVER	85	59.3	452	66.8	62.3
66 NORTHAMPTON	20	95.9	79	76.3	58.1
67 ONSLOW	61	40.6	255	34.5	73.9
68 ORANGE	44	41.5	204	39.3	53.5
69 PAMLICO	10	83.3	48	81.7	59.0
70 PASQUOTANK	16	47.3	110	66.5	61.7
71 PENDER	27	75.0	115	68.6	58.1
72 PERQUIMANS	14	130.2	52	98.2	69.0
73 PERSON	22	67.7	126	79.9	70.1
74 PITT	58	48.6	273	47.1	56.6
75 POLK	14	86.4	64	82.3	49.1
76 RANDOLPH	84	70.8	321	56.5	53.5
77 RICHMOND	31	67.6	146	64.4	57.1
78 ROBESON	73	65.2	334	60.9	67.2
79 ROCKINGHAM	77	86.3	341	77.8	65.6
80 ROWAN	91	75.2	403	69.0	58.1
81 RUTHERFORD	36	60.7	215	73.4	59.7
82 SAMPSON	38	73.8	182	73.0	62.8
83 SCOTLAND	14	40.0	97	56.0	58.9
84 STANLY	39	71.4	192	71.6	61.3
85 STOKES	29	68.7	137	68.3	66.7
86 SURRY	45	68.3	245	76.2	61.4
87 SWAIN	7	59.1	42	73.0	59.1
88 TRANSYLVANIA	25	90.7	104	77.1	52.3
89 TYRRELL	2	54.5	11	57.8	42.2
90 UNION	43	42.1	230	48.5	56.5
91 VANCE	30	73.9	161	80.8	76.7
92 WAKE	226	41.9	931	37.4	52.8
93 WARREN	13	71.5	63	70.6	48.8
94 WASHINGTON	15	111.1	63	91.3	79.0
95 WATAUGA	19	47.0	74	37.7	41.0
96 WAYNE	64	56.9	316	57.7	61.6
97 WILKES	31	49.4	177	57.6	49.8
98 WILSON	40	58.4	216	64.0	59.1
99 YADKIN	26	74.8	96	58.2	46.9
100 YANCEY	11	67.7	39	48.8	34.8

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

STATE CENTER FOR HEALTH STATISTICS
DEPARTMENT OF HEALTH AND HUMAN SERVICES

Cancer - Trachea, Bronchus and Lung

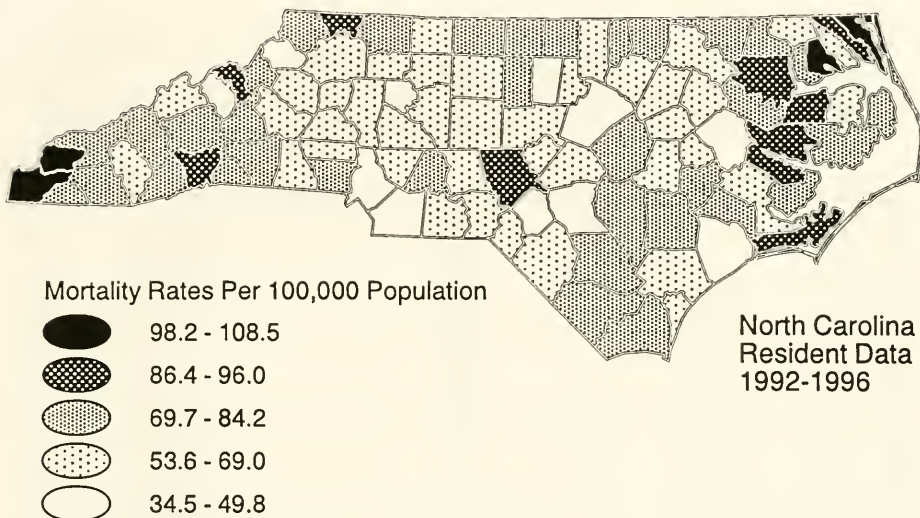


Figure 11.A

Cancer - Trachea, Bronchus and Lung

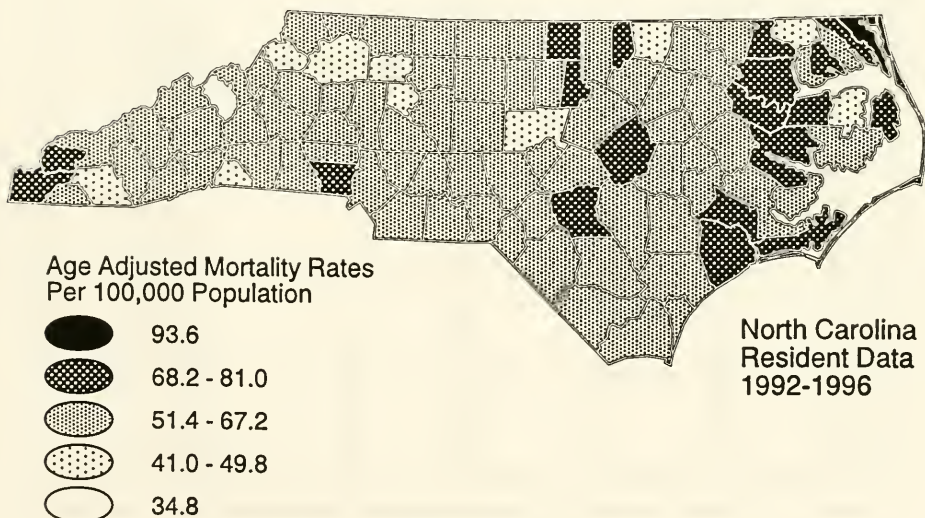


Figure 11.B

TABLE - 12
MORTALITY STATISTICS FOR 1996
NORTH CAROLINA RESIDENTS
CANCER - BREAST FEMALE

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
NORTH CAROLINA	1141	30.2	5770	31.6	27.5

COUNTIES

1 ALAMANCE	22	35.6	102	34.1	25.5
2 ALEXANDER	5	32.6	18	24.3	19.9
3 ALLEGHANY	3	60.4	8	32.0	19.2
4 ANSON	8	63.2	35	55.3	44.0
5 ASHE	2	16.5	17	28.8	20.4
6 AVERY	1	13.2	9	23.9	18.8
7 BEAUFORT	8	35.1	43	37.8	27.2
8 BERTIE	5	44.8	18	32.4	24.7
9 BLADEN	9	55.9	36	45.9	35.7
10 BRUNSWICK	10	31.1	50	33.3	25.2
11 BUNCOMBE	31	31.0	222	45.6	33.5
12 BURKE	13	31.0	56	27.6	22.6
13 CABARRUS	13	22.3	75	27.0	22.3
14 CALDWELL	7	18.5	46	24.7	20.5
15 CAMDEN	1	32.1	5	32.8	24.8
16 CARTERET	12	40.6	66	45.9	36.1
17 CASWELL	1	9.1	20	36.7	28.1
18 CATAWBA	18	27.4	102	31.9	26.9
19 CHATHAM	5	21.8	42	38.6	30.3
20 CHEROKEE	8	69.9	21	37.8	25.1
21 CHOWAN	2	26.3	15	39.9	27.2
22 CLAY	2	49.2	9	46.0	30.8
23 CLEVELAND	24	51.1	75	32.7	26.5
24 COLUMBUS	7	25.4	46	34.0	27.7
25 CRAVEN	14	31.8	62	28.9	26.5
26 CUMBERLAND	37	25.6	159	22.4	26.9
27 CURRITUCK	2	24.6	14	36.7	31.3
28 DARE	5	37.4	25	40.0	35.6
29 DAVIDSON	26	36.9	91	26.5	22.4
30 DAVIE	2	12.8	18	24.0	19.0
31 DÜPLIN	8	35.5	47	43.0	35.6
32 DURHAM	27	26.3	158	31.3	30.5
33 EDGEcombe	7	22.8	53	34.3	30.2
34 FORSYTH	60	40.0	252	34.5	29.4
35 FRANKLIN	7	31.5	44	41.6	35.1
36 GASTON	22	23.7	156	33.8	29.1
37 GATES	4	79.9	11	44.7	36.6
38 GRAHAM	2	52.5	5	27.0	17.7
39 GRANVILLE	12	56.7	41	39.9	34.8
40 GREENE	3	35.4	14	34.3	28.8
41 GUILFORD	58	29.1	306	31.7	27.9
42 HALIFAX	12	40.2	63	41.9	34.5
43 HARNETT	15	36.6	63	32.6	30.2
44 HAYWOOD	15	56.4	49	37.8	26.5
45 HENDERSON	12	29.6	83	42.4	24.5

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

MORTALITY STATISTICS FOR 1996, NORTH CAROLINA RESIDENTS
CANCER - BREAST FEMALE, CONT'D

COUNTIES (CONT'D)	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
46 HERTFORD	10	83.0	28	46.2	39.5
47 HOKE	2	14.3	13	20.0	19.9
48 HYDE	1	37.6	5	36.9	30.1
49 IREDELL	21	38.4	79	30.3	24.7
50 JACKSON	2	13.1	13	17.6	15.0
51 JOHNSTON	23	45.1	70	29.4	25.3
52 JONES	0	0.0	6	23.9	18.5
53 LEE	5	20.4	29	24.9	20.6
54 LENOIR	11	34.6	70	44.5	34.3
55 LINCOLN	9	31.3	49	35.5	31.1
56 MCDOWELL	8	40.8	37	39.2	29.1
57 MACON	3	21.2	32	47.7	28.2
58 MADISON	0	0.0	18	40.4	30.9
59 MARTIN	5	36.6	22	32.1	23.3
60 MECKLENBURG	69	22.4	395	27.0	27.9
61 MITCHELL	4	52.3	13	34.2	25.1
62 MONTGOMERY	6	50.5	19	32.6	28.3
63 MOORE	13	36.4	77	45.3	28.4
64 NASH	12	26.6	75	34.6	30.8
65 NEW HANOVER	21	27.8	120	33.7	28.3
66 NORTHAMPTON	11	101.3	31	57.8	37.8
67 ONSLOW	10	15.9	45	14.8	22.7
68 ORANGE	10	17.9	70	25.6	29.5
69 PAMLICO	1	16.0	14	45.7	29.6
70 PASQUOTANK	6	33.2	31	35.2	30.8
71 PENDER	4	21.5	26	30.0	23.7
72 PERQUIMANS	2	35.9	9	32.7	19.4
73 PERSON	3	17.7	27	32.8	24.8
74 PITT	14	22.3	77	25.3	26.1
75 POLK	6	69.2	18	43.3	24.0
76 RANDOLPH	18	29.7	95	32.7	27.8
77 RICHMOND	8	33.4	56	47.3	36.7
78 ROBESON	13	22.0	73	25.2	24.4
79 ROCKINGHAM	11	23.5	76	33.0	25.5
80 ROWAN	24	38.7	100	33.3	25.3
81 RUTHERFORD	11	35.9	48	31.6	23.9
82 SAMPSON	12	44.3	50	38.1	30.6
83 SCOTLAND	7	37.2	28	30.1	27.6
84 STANLY	10	35.4	46	33.2	25.9
85 STOKES	3	14.0	22	21.6	19.1
86 SURRY	7	20.4	58	34.6	25.5
87 SWAIN	2	34.1	9	31.5	24.5
88 TRANSYLVANIA	5	35.3	27	39.0	25.0
89 TYRRELL	1	52.3	6	60.4	41.2
90 UNION	11	21.1	57	23.6	23.4
91 VANCE	8	37.1	40	37.9	32.3
92 WAKE	73	26.4	298	23.4	26.3
93 WARREN	7	73.9	21	45.2	30.2
94 WASHINGTON	1	14.0	14	38.4	29.4
95 WATAUGA	6	28.9	23	22.9	23.9
96 WAYNE	15	26.9	88	32.3	29.7
97 WILKES	6	18.7	45	28.7	23.4
98 WILSON	10	27.3	69	38.2	31.9
99 YADKIN	8	44.7	39	45.9	33.8
100 YANCEY	5	59.7	14	33.9	21.9

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

STATE CENTER FOR HEALTH STATISTICS
DEPARTMENT OF HEALTH AND HUMAN SERVICES

Cancer - Female Breast

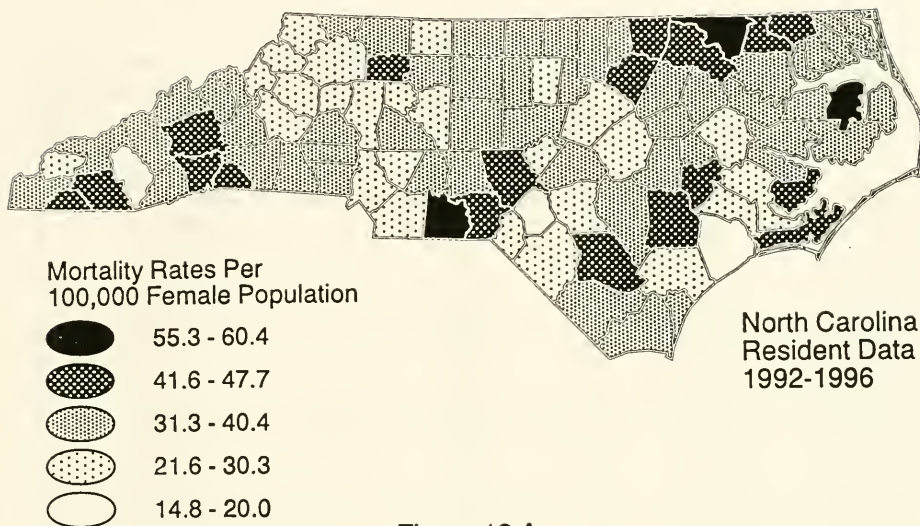


Figure 12.A

Cancer - Female Breast

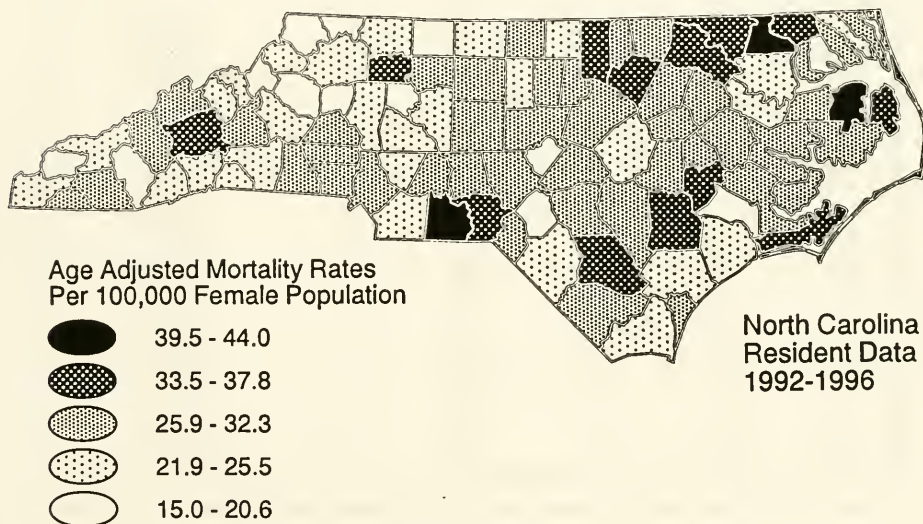


Figure 12.B

TABLE - 13
MORTALITY STATISTICS FOR 1996
NORTH CAROLINA RESIDENTS
CANCER - PROSTATE

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
NORTH CAROLINA	1020	28.8	5047	29.5	37.6

COUNTIES

1 ALAMANCE	21	37.5	97	35.9	38.1
2 ALEXANDER	5	32.8	20	27.3	38.5
3 ALLEGHANY	4	86.2	13	55.7	42.7
4 ANSON	6	53.9	22	39.4	38.7
5 ASHE	7	61.5	25	45.1	35.1
6 AVERY	2	26.2	7	18.5	17.1
7 BEAUFORT	11	53.9	42	41.3	42.7
8 BERTIE	5	53.3	28	59.5	62.0
9 BLADEN	6	42.9	35	50.9	52.9
10 BRUNSWICK	15	48.9	53	37.0	37.1
11 BUNCOMBE	35	38.5	177	40.1	36.3
12 BURKE	6	14.8	45	23.0	26.9
13 CABARRUS	10	18.1	53	20.2	26.8
14 CALDWELL	8	21.9	43	24.0	29.8
15 CAMDEN	0	0.0	4	25.6	30.3
16 CARTERET	3	10.4	36	25.7	26.5
17 CASWELL	8	76.7	29	56.1	56.6
18 CATAWBA	19	30.5	89	29.4	39.1
19 CHATHAM	7	32.6	26	25.4	25.5
20 CHEROKEE	5	47.0	17	33.0	22.6
21 CHOWAN	1	15.3	9	27.7	23.3
22 CLAY	5	132.6	14	76.9	52.2
23 CLEVELAND	9	20.7	65	30.8	35.9
24 COLUMBUS	12	49.5	51	42.7	47.8
25 CRAVEN	11	25.5	49	23.3	32.3
26 CUMBERLAND	35	23.4	120	16.1	42.7
27 CURRITUCK	2	24.2	17	43.8	58.5
28 DARE	4	30.3	19	30.7	42.6
29 DAVIDSON	10	14.7	87	26.3	32.4
30 DAVIE	1	6.7	21	29.0	30.6
31 DUPLIN	10	47.6	45	44.3	49.7
32 DURHAM	28	30.4	124	27.4	42.7
33 EDGECOMBE	10	39.5	46	35.9	47.0
34 FORSYTH	31	23.1	180	27.6	35.4
35 FRANKLIN	10	48.8	30	30.8	38.3
36 GASTON	25	28.9	100	23.3	32.1
37 GATES	1	20.6	10	41.8	44.4
38 GRAHAM	0	0.0	11	60.0	48.5
39 GRANVILLE	6	28.9	34	33.8	42.2
40 GREENE	2	23.0	9	21.7	29.8
41 GUILFORD	46	25.8	278	32.1	40.8
42 HALIFAX	12	44.9	64	47.5	51.9
43 HARNETT	15	38.9	53	29.2	40.7
44 HAYWOOD	5	20.8	42	35.8	27.1
45 HENDERSON	11	29.7	84	47.0	29.8

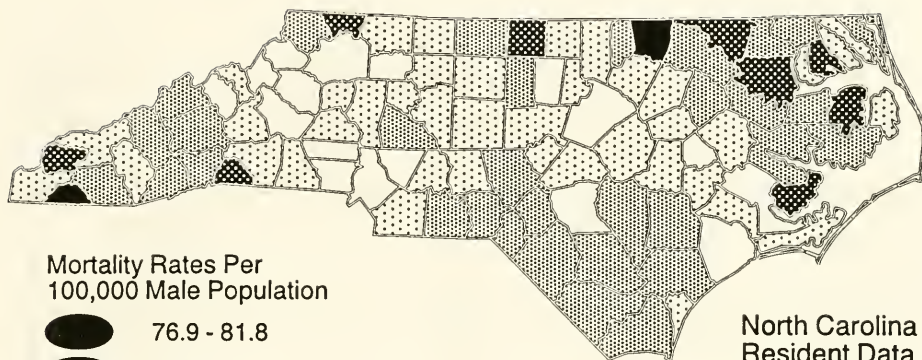
*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

MORTALITY STATISTICS FOR 1996, NORTH CAROLINA RESIDENTS
CANCER - PROSTATE, CONT'D

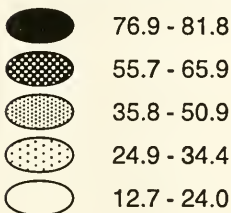
COUNTIES (CONT'D)	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
46 HERTFORD	4	39.4	22	42.8	44.2
47 HOKE	7	49.5	24	36.6	72.2
48 HYDE	1	39.5	5	38.8	42.8
49 IREDELL	13	25.3	61	24.9	29.0
50 JACKSON	3	21.4	21	30.9	30.8
51 JOHNSTON	6	12.4	64	28.6	36.1
52 JONES	3	68.7	6	27.1	30.5
53 LEE	5	21.8	34	31.3	39.1
54 LENOIR	10	36.4	47	34.4	41.8
55 LINCOLN	4	14.3	31	23.1	30.5
56 MCDOWELL	9	48.1	29	32.2	32.4
57 MACON	4	30.9	23	37.4	21.7
58 MADISON	7	77.8	18	41.4	32.7
59 MARTIN	5	41.3	27	44.5	46.3
60 MECKLENBURG	66	23.1	315	23.2	39.1
61 MITCHELL	2	28.6	10	28.7	21.8
62 MONTGOMERY	3	24.0	17	28.0	35.5
63 MOORE	8	24.7	70	45.4	31.8
64 NASH	9	22.0	56	28.5	38.3
65 NEW HANOVER	26	38.3	97	30.3	36.5
66 NORTHAMPTON	10	100.0	32	64.2	59.1
67 ONSLOW	9	10.3	55	12.7	51.7
68 ORANGE	9	17.9	57	23.2	39.3
69 PAMLICO	4	69.7	17	60.5	50.1
70 PASQUOTANK	8	50.7	26	33.7	35.9
71 PENDER	2	11.5	37	45.6	52.4
72 PERQUIMANS	3	57.9	15	58.9	44.4
73 PERSON	4	25.7	20	26.5	29.0
74 PITT	15	26.5	76	27.6	47.8
75 POLK	4	53.2	21	58.0	33.8
76 RANDOLPH	14	24.1	85	30.6	36.8
77 RICHMOND	9	41.1	46	42.5	47.6
78 ROBESON	23	43.5	96	37.0	56.4
79 ROCKINGHAM	15	35.4	83	39.9	42.5
80 ROWAN	25	42.4	124	43.6	42.9
81 RUTHERFORD	9	31.4	39	27.6	27.3
82 SAMPSON	9	36.9	43	36.3	38.3
83 SCOTLAND	8	49.4	33	41.1	58.1
84 STANLY	5	19.0	40	30.9	32.1
85 STOKES	6	28.9	33	33.5	41.1
86 SURRY	6	19.1	42	27.3	29.0
87 SWAIN	4	66.8	9	31.0	29.2
88 TRANSYLVANIA	9	67.2	33	50.3	36.3
89 TYRRELL	1	56.9	6	65.9	51.1
90 UNION	13	26.0	63	27.1	45.9
91 VANCE	10	52.4	37	39.5	51.0
92 WAKE	46	17.5	216	17.8	37.0
93 WARREN	8	91.9	35	81.8	65.3
94 WASHINGTON	4	62.8	13	39.9	42.7
95 WATAUGA	8	40.6	23	24.0	32.5
96 WAYNE	19	33.5	85	30.9	48.6
97 WILKES	8	26.1	34	22.6	24.7
98 WILSON	8	25.1	48	30.6	39.0
99 YADKIN	1	5.9	17	21.2	21.2
100 YANCEY	4	50.8	8	20.7	16.3

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

Cancer - Prostate



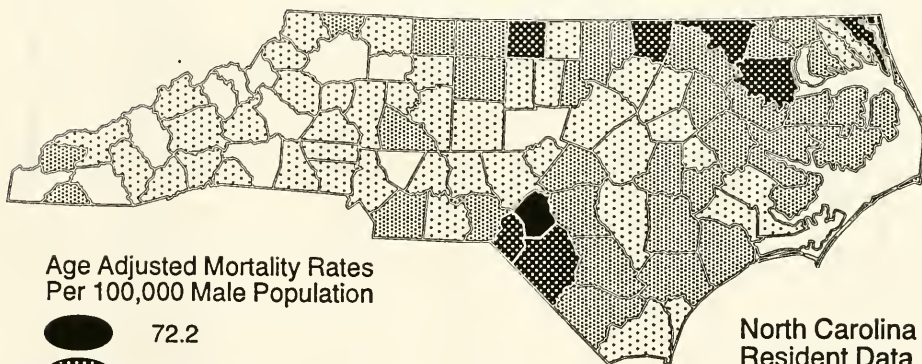
Mortality Rates Per
100,000 Male Population



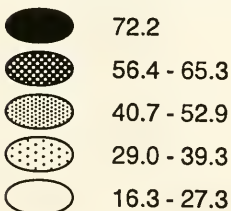
North Carolina
Resident Data
1992-1996

Figure 13.A

Cancer - Prostate



Age Adjusted Mortality Rates
Per 100,000 Male Population



North Carolina
Resident Data
1992-1996

Figure 13.B

TABLE - 14
MORTALITY STATISTICS FOR 1996
NORTH CAROLINA RESIDENTS
ACQUIRED IMMUNE DEFICIENCY SYNDROME (AIDS)

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
NORTH CAROLINA	826	11.3	4305	12.2	12.1

COUNTIES

1	ALAMANCE	10	8.5	58	10.2	10.3
2	ALEXANDER	1	3.3	6	4.1	4.2
3	ALLEGHANY	0	0.0	2	4.1	3.8
4	ANSON	2	8.4	13	10.9	11.7
5	ASHE	0	0.0	1	0.9	1.1
6	AVERY	0	0.0	2	2.6	2.5
7	BEAUFORT	6	13.9	38	17.6	19.3
8	BERTIE	4	19.5	9	8.8	9.9
9	BLADEN	5	16.6	17	11.5	11.3
10	BRUNSWICK	2	3.2	25	8.5	9.1
11	BUNCOMBE	31	16.2	118	12.7	13.0
12	BURKE	4	4.8	21	5.3	5.6
13	CABARRUS	7	6.2	40	7.4	7.5
14	CALDWELL	4	5.4	12	3.3	3.1
15	CAMDEN	1	15.7	2	6.5	7.8
16	CARTERET	2	3.4	12	4.2	4.2
17	CASWELL	2	9.3	6	5.7	6.1
18	CATAWBA	3	2.3	42	6.8	6.7
19	CHATHAM	3	6.8	13	6.2	6.1
20	CHEROKEE	0	0.0	6	5.6	5.2
21	CHOWAN	2	14.1	7	10.0	10.4
22	CLAY	2	25.5	3	7.9	8.3
23	CLEVELAND	9	10.0	39	8.9	9.1
24	COLUMBUS	6	11.6	33	13.0	13.9
25	CRAVEN	6	6.9	42	9.9	10.4
26	CUMBERLAND	34	11.6	161	11.1	11.5
27	CURRITUCK	0	0.0	3	3.9	3.8
28	DARE	2	7.5	5	4.0	3.5
29	DAVIDSON	12	8.7	47	7.0	6.9
30	DAVIE	1	3.3	5	3.4	3.7
31	DUPLIN	5	11.5	25	11.9	12.1
32	DURHAM	40	20.5	287	30.0	28.2
33	EDGECOMBE	10	17.8	39	13.8	14.3
34	FORSYTH	41	14.4	185	13.4	12.9
35	FRANKLIN	1	2.3	19	9.4	8.9
36	GASTON	29	16.2	127	14.3	14.3
37	GATES	0	0.0	3	6.2	6.3
38	GRAHAM	0	0.0	2	5.4	6.1
39	GRANVILLE	3	7.2	24	11.8	11.3
40	GREENE	2	11.6	6	7.3	7.1
41	GUILFORD	63	16.7	350	19.1	18.9
42	HALIFAX	11	19.5	44	15.4	16.5
43	HARNETT	2	2.5	32	8.5	9.0
44	HAYWOOD	2	3.9	12	4.9	5.1
45	HENDERSON	4	5.2	18	4.8	5.4

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

MORTALITY STATISTICS FOR 1996, NORTH CAROLINA RESIDENTS
AIDS, CONT'D

COUNTIES (CONT'D)	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
46 HERTFORD	0	0.0	13	11.6	13.4
47 HOKE	2	7.1	13	10.0	10.0
48 HYDE	1	19.3	3	11.3	10.5
49 IREDELL	9	8.5	31	6.1	6.4
50 JACKSON	0	0.0	3	2.1	1.8
51 JOHNSTON	11	11.1	52	11.3	11.2
52 JONES	2	21.5	6	12.7	14.7
53 LEE	3	6.3	16	7.1	7.1
54 LENOIR	13	21.9	52	17.7	18.6
55 LINCOLN	2	3.5	13	4.8	4.7
56 MCDOWELL	1	2.6	2	1.1	1.3
57 MACON	0	0.0	5	3.9	5.0
58 MADISON	1	5.5	1	1.1	0.9
59 MARTIN	3	11.6	9	7.0	7.2
60 MECKLENBURG	156	26.3	778	27.6	25.4
61 MITCHELL	1	6.8	4	5.5	6.4
62 MONTGOMERY	1	4.1	12	10.1	10.3
63 MOORE	3	4.4	18	5.6	6.4
64 NASH	10	11.6	49	11.9	11.7
65 NEW HANOVER	17	11.9	101	14.9	14.7
66 NORTHAMPTON	2	9.6	19	18.4	18.8
67 ONSLOW	6	4.0	37	5.0	6.2
68 ORANGE	12	11.3	50	9.6	9.6
69 PAMLICO	2	16.7	8	13.6	14.5
70 PASQUOTANK	2	5.9	12	7.3	7.7
71 PENDER	1	2.8	16	9.5	9.5
72 PERQUIMANS	1	9.3	2	3.8	4.1
73 PERSON	3	9.2	8	5.1	5.4
74 PITT	17	14.3	100	17.2	17.9
75 POLK	2	12.3	6	7.7	8.8
76 RANDOLPH	5	4.2	24	4.2	4.2
77 RICHMOND	7	15.3	21	9.3	10.0
78 ROBESON	13	11.6	67	12.2	13.0
79 ROCKINGHAM	6	6.7	34	7.8	7.9
80 ROWAN	6	5.0	49	8.4	8.6
81 RUTHERFORD	5	8.4	17	5.8	6.3
82 SAMPSON	4	7.8	31	12.4	12.9
83 SCOTLAND	5	14.3	19	11.0	11.4
84 STANLY	5	9.2	16	6.0	6.2
85 STOKES	1	2.4	4	2.0	1.8
86 SURRY	1	1.5	7	2.2	2.3
87 SWAIN	0	0.0	2	3.5	3.7
88 TRANSYLVANIA	1	3.6	11	8.2	9.8
89 TYRRELL	0	0.0	0	0.0	0.0
90 UNION	6	5.9	32	6.8	6.6
91 VANCE	13	32.0	45	22.6	23.6
92 WAKE	64	11.9	361	14.5	13.1
93 WARREN	0	0.0	9	10.1	11.1
94 WASHINGTON	1	7.4	11	15.9	18.2
95 WATAUGA	2	4.9	5	2.5	3.3
96 WAYNE	13	11.6	74	13.5	13.1
97 WILKES	0	0.0	4	1.3	1.3
98 WILSON	9	13.1	57	16.9	17.7
99 YADKIN	1	2.9	3	1.8	1.9
100 YANCEY	0	0.0	2	2.5	3.2

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

Acquired Immune Deficiency Syndrome

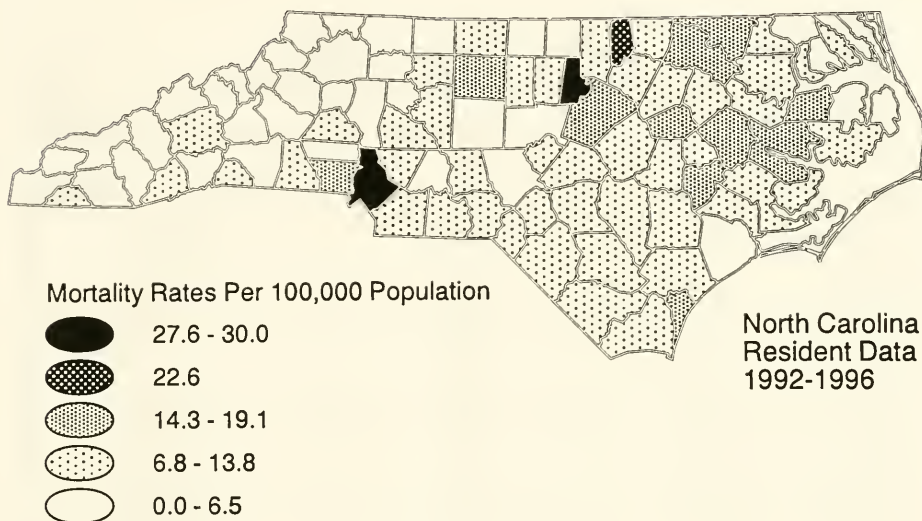


Figure 14.A

Acquired Immune Deficiency Syndrome

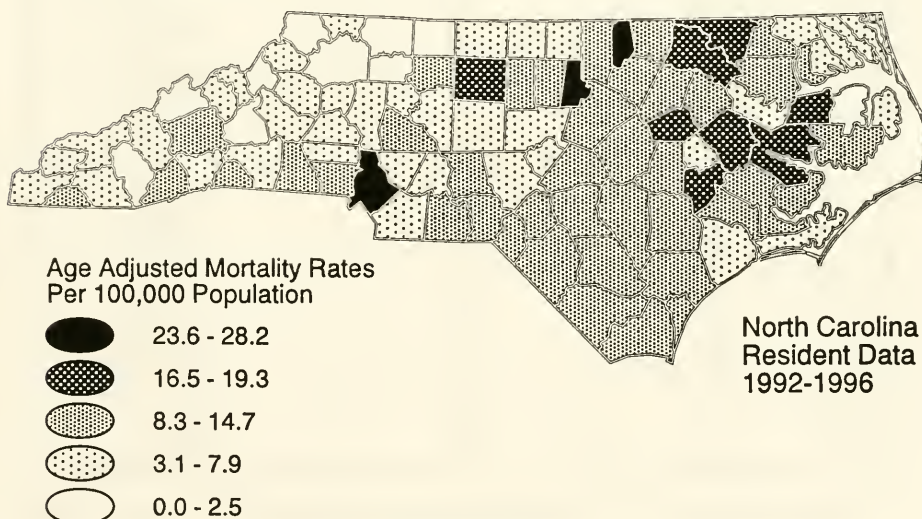


Figure 14.B

TABLE - 15
MORTALITY STATISTICS FOR 1996
NORTH CAROLINA RESIDENTS
SEPTICEMIA

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
NORTH CAROLINA	647	8.8	3106	8.8	8.3

COUNTIES

1	ALAMANCE	9	7.6	58	10.2	8.3
2	ALEXANDER	1	3.3	9	6.1	5.9
3	ALLEGHANY	0	0.0	6	12.4	7.5
4	ANSON	1	4.2	8	6.7	4.8
5	ASHE	2	8.5	8	7.0	4.8
6	AVERY	0	0.0	5	6.6	4.9
7	BEAUFORT	4	9.3	32	14.8	11.6
8	BERTIE	2	9.7	6	5.8	5.1
9	BLADEN	9	29.9	24	16.3	13.4
10	BRUNSWICK	10	15.9	22	7.5	7.1
11	BUNCOMBE	11	5.8	98	10.6	7.5
12	BURKE	13	15.8	32	8.0	6.9
13	CABARRUS	5	4.4	40	7.4	6.8
14	CALDWELL	5	6.7	19	5.2	4.9
15	CAMDEN	0	0.0	1	3.2	2.6
16	CARTERET	4	6.9	13	4.6	3.9
17	CASWELL	2	9.3	10	9.4	7.2
18	CATAWBA	9	7.0	45	7.2	6.8
19	CHATHAM	2	4.5	21	9.9	7.7
20	CHEROKEE	4	18.1	15	14.0	9.6
21	CHOWAN	0	0.0	5	7.1	4.6
22	CLAY	2	25.5	3	7.9	4.5
23	CLEVELAND	8	8.9	52	11.8	10.1
24	COLUMBUS	9	17.4	40	15.7	13.6
25	Craven	14	16.1	56	13.2	14.1
26	CUMBERLAND	20	6.8	80	5.5	8.7
27	CURRITUCK	2	12.2	8	10.4	10.2
28	DARE	4	15.1	15	12.1	13.5
29	DAVIDSON	6	4.3	37	5.5	5.2
30	DAVIE	3	9.8	17	11.5	9.2
31	DUPLIN	5	11.5	22	10.4	8.9
32	DURHAM	30	15.4	116	12.1	13.0
33	EDGECOMBE	11	19.6	45	15.9	15.5
34	FORSYTH	27	9.5	142	10.3	9.2
35	FRANKLIN	7	16.4	22	10.8	9.9
36	GASTON	16	8.9	65	7.3	6.9
37	GATES	3	30.4	6	12.4	11.3
38	GRAHAM	1	13.3	2	5.4	3.2
39	GRANVILLE	5	11.9	25	12.3	11.6
40	GREENE	2	11.6	10	12.1	10.9
41	GUILFORD	33	8.7	138	7.5	7.0
42	HALIFAX	16	28.3	41	14.4	11.9
43	HARNETT	7	8.8	43	11.5	11.5
44	HAYWOOD	7	13.8	21	8.5	4.7
45	HENDERSON	7	9.0	38	10.1	6.2

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

MORTALITY STATISTICS FOR 1996, NORTH CAROLINA RESIDENTS
SEPTICEMIA, CONT'D

COUNTIES (CONT'D)	NUMBER OF DEATHS	DEATH RATE*	NUMBER OF DEATHS	DEATH RATE*	ADJUSTED DEATH RATE*
	1996	1996	1992-1996	1992-1996	1992-1996
46 HERTFORD	1	4.5	9	8.0	6.4
47 HOKE	4	14.2	12	9.2	11.0
48 HYDE	0	0.0	2	7.6	5.5
49 IREDELL	11	10.4	49	9.7	8.5
50 JACKSON	3	10.3	24	16.9	12.9
51 JOHNSTON	6	6.0	36	7.8	7.4
52 JONES	1	10.7	7	14.8	12.6
53 LEE	7	14.8	22	9.8	8.9
54 LENOIR	3	5.1	29	9.9	8.5
55 LINCOLN	3	5.3	23	8.4	8.3
56 MCDOWELL	1	2.6	17	9.2	7.6
57 MACON	1	3.7	16	12.4	6.3
58 MADISON	2	11.0	32	36.3	21.9
59 MARTIN	7	27.2	21	16.3	13.9
60 MECKLENBURG	49	8.3	214	7.6	8.8
61 MITCHELL	4	27.3	11	15.1	9.6
62 MONTGOMERY	3	12.3	9	7.6	6.9
63 MOORE	5	7.3	27	8.3	5.7
64 NASH	8	9.3	38	9.2	8.7
65 NEW HANOVER	6	4.2	37	5.5	5.1
66 NORTHAMPTON	1	4.8	13	12.6	9.6
67 ONSLOW	7	4.7	23	3.1	6.9
68 ORANGE	1	0.9	25	4.8	6.4
69 PAMLICO	1	8.3	4	6.8	4.7
70 PASQUOTANK	0	0.0	8	4.8	4.7
71 PENDER	3	8.3	13	7.8	6.9
72 PERQUIMANS	2	18.6	6	11.3	8.2
73 PERSON	1	3.1	18	11.4	9.7
74 PITT	12	10.1	59	10.2	12.0
75 POLK	1	6.2	5	6.4	3.7
76 RANDOLPH	5	4.2	40	7.0	6.6
77 RICHMOND	4	8.7	26	11.5	9.8
78 ROBESON	11	9.8	54	9.8	10.6
79 ROCKINGHAM	9	10.1	42	9.6	7.7
80 ROWAN	13	10.7	55	9.4	7.2
81 RUTHERFORD	7	11.8	27	9.2	7.0
82 SAMPSON	5	9.7	31	12.4	10.4
83 SCOTLAND	2	5.7	14	8.1	8.2
84 STANLY	5	9.2	21	7.8	6.5
85 STOKES	1	2.4	15	7.5	7.0
86 SURRY	8	12.1	33	10.3	7.7
87 SWAIN	2	16.9	14	24.3	19.4
88 TRANSYLVANIA	1	3.6	6	4.4	2.6
89 TYRRELL	1	27.2	1	5.3	3.2
90 UNION	12	11.8	33	7.0	8.5
91 VANCE	6	14.8	27	13.5	12.5
92 WAKE	34	6.3	154	6.2	8.5
93 WARREN	1	5.5	10	11.2	8.0
94 WASHINGTON	0	0.0	6	8.7	8.0
95 WATAUGA	0	0.0	7	3.6	3.7
96 WAYNE	5	4.4	40	7.3	8.3
97 WILKES	10	15.9	51	16.6	14.0
98 WILSON	10	14.6	39	11.6	10.6
99 YADKIN	2	5.8	23	13.9	10.1
100 YANCEY	1	6.2	7	8.8	6.1

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

STATE CENTER FOR HEALTH STATISTICS
DEPARTMENT OF HEALTH AND HUMAN SERVICES

Septicemia

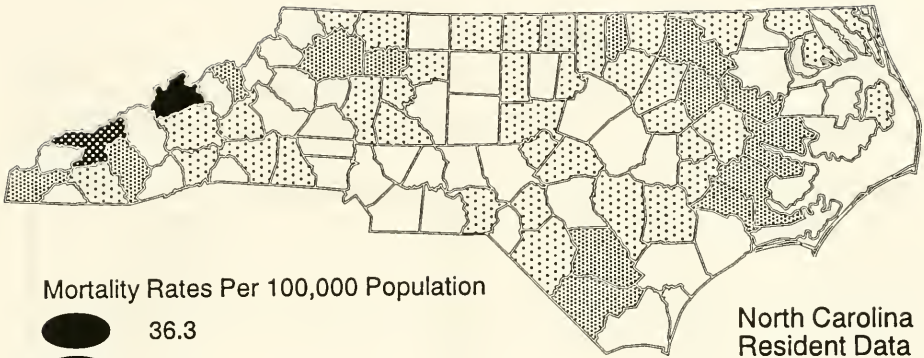


Figure 15.A

Septicemia

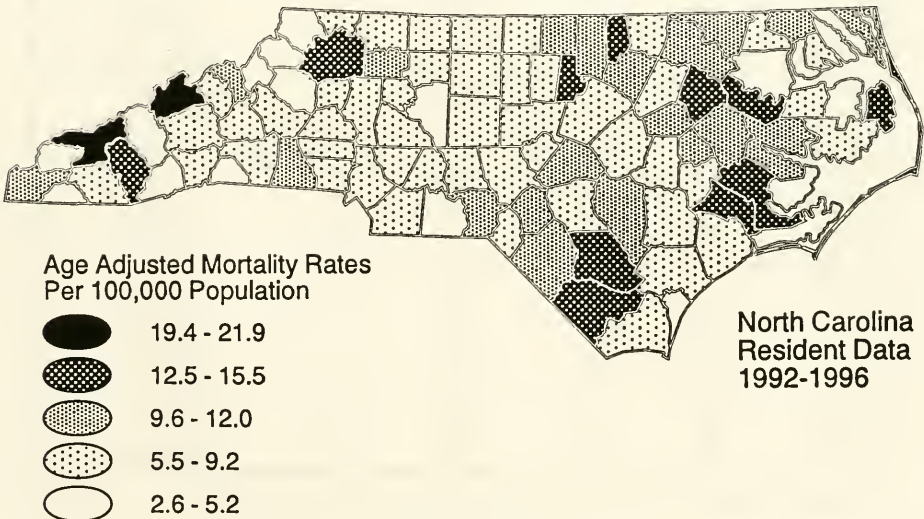


Figure 15.B

TABLE - 16
MORTALITY STATISTICS FOR 1996
NORTH CAROLINA RESIDENTS
DIABETES MELLITUS

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
NORTH CAROLINA	1816	24.8	8154	23.1	22.2

COUNTIES

1 ALAMANCE	34	28.9	185	32.5	26.4
2 ALEXANDER	7	22.9	24	16.3	15.6
3 ALLEGHANY	3	31.2	11	22.7	13.9
4 ANSON	11	46.2	27	22.7	19.6
5 ASHE	6	25.6	36	31.4	20.9
6 AVERY	2	13.1	16	21.2	15.6
7 BEAUFORT	18	41.7	84	39.0	31.5
8 BERTIE	14	68.2	51	49.7	42.5
9 BLADEN	9	29.9	38	25.8	21.3
10 BRUNSWICK	20	31.8	85	29.0	24.3
11 BUNCOMBE	48	25.2	234	25.2	19.1
12 BURKE	20	24.2	102	25.6	22.3
13 CABARRUS	25	22.0	99	18.3	16.5
14 CALDWELL	19	25.6	96	26.3	24.1
15 CAMDEN	4	62.9	6	19.4	17.7
16 CARTERET	12	20.6	66	23.3	19.2
17 CASWELL	7	32.6	30	28.3	22.9
18 CATAWBA	30	23.4	138	22.2	21.1
19 CHATHAM	9	20.3	58	27.5	22.1
20 CHEROKEE	7	31.7	18	16.8	11.3
21 CHOWAN	4	28.3	19	27.1	19.1
22 CLAY	1	12.8	8	21.2	11.5
23 CLEVELAND	19	21.0	112	25.4	21.9
24 COLUMBUS	8	15.4	53	20.8	17.9
25 CRAVEN	21	24.1	82	19.3	20.1
26 CUMBERLAND	54	18.4	251	17.3	27.6
27 CURRITUCK	3	18.3	9	11.7	11.0
28 DARE	2	7.5	11	8.8	8.9
29 DAVIDSON	33	23.8	142	21.1	19.9
30 DAVIE	17	55.6	43	29.2	23.9
31 DUPLIN	12	27.6	61	28.9	25.1
32 DURHAM	54	27.7	216	22.6	25.8
33 EDGECOMBE	20	35.7	95	33.6	32.5
34 FORSYTH	79	27.8	370	26.8	24.8
35 FRANKLIN	11	25.7	62	30.5	28.7
36 GASTON	50	27.9	213	23.9	23.0
37 GATES	4	40.6	11	22.7	19.1
38 GRAHAM	7	92.9	22	59.7	44.0
39 GRANVILLE	10	23.9	55	27.0	25.7
40 GREENE	7	40.7	25	30.3	27.8
41 GUILFORD	93	24.6	363	19.8	19.0
42 HALIFAX	22	38.9	88	30.9	27.1
43 HARNETT	26	32.7	94	25.1	25.5
44 HAYWOOD	16	31.6	56	22.7	13.6
45 HENDERSON	16	20.6	66	17.6	11.3

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

MORTALITY STATISTICS FOR 1996, NORTH CAROLINA RESIDENTS
DIABETES MELLITUS, CONT'D

COUNTIES (CONT'D)	NUMBER OF DEATHS	DEATH RATE*	NUMBER OF DEATHS	DEATH RATE*	ADJUSTED DEATH RATE*
	1996	1996	1992-1996	1992-1996	1992-1996
46 HERTFORD	11	49.5	50	44.6	38.3
47 HOKE	9	32.0	29	22.2	25.5
48 HYDE	1	19.3	11	41.6	30.7
49 IREDELL	17	16.0	88	17.4	15.5
50 JACKSON	4	13.7	27	19.0	16.4
51 JOHNSTON	23	23.2	96	20.8	19.8
52 JONES	4	42.9	12	25.4	21.5
53 LEE	13	27.4	58	25.7	23.3
54 LENOIR	17	28.7	93	31.6	27.3
55 LINCOLN	10	17.6	45	16.5	16.4
56 MCDOWELL	12	31.3	59	32.0	24.9
57 MACON	6	22.2	47	36.6	21.5
58 MADISON	2	11.0	20	22.7	15.2
59 MARTIN	8	31.1	49	37.9	31.3
60 MECKLENBURG	115	19.4	514	18.3	22.0
61 MITCHELL	7	47.8	28	38.4	26.3
62 MONTGOMERY	11	45.1	38	32.0	29.5
63 MOORE	7	10.3	47	14.5	9.4
64 NASH	22	25.6	118	28.6	27.5
65 NEW HANOVER	20	13.9	138	20.4	19.0
66 NORTHAMPTON	6	28.8	39	37.7	28.8
67 ONSLOW	13	8.7	64	8.7	18.6
68 ORANGE	15	14.1	62	12.0	15.2
69 PAMLICO	8	66.6	18	30.7	21.5
70 PASQUOTANK	10	29.5	46	27.8	25.7
71 PENDER	10	27.8	51	30.4	26.5
72 PERQUIMANS	3	27.9	13	24.5	16.4
73 PERSON	11	33.8	37	23.5	19.6
74 PITT	29	24.3	149	25.7	30.6
75 POLK	6	37.0	25	32.1	16.9
76 RANDOLPH	29	24.4	112	19.7	18.7
77 RICHMOND	10	21.8	58	25.6	22.7
78 ROBESON	55	49.1	229	41.7	46.1
79 ROCKINGHAM	21	23.5	128	29.2	23.9
80 ROWAN	29	24.0	166	28.4	23.9
81 RUTHERFORD	14	23.6	58	19.8	15.3
82 SAMPSON	19	36.9	67	26.9	22.5
83 SCOTLAND	16	45.7	61	35.2	37.1
84 STANLY	27	49.5	91	33.9	28.7
85 STOKES	7	16.6	28	14.0	13.3
86 SURRY	19	28.8	83	25.8	19.9
87 SWAIN	7	59.1	27	46.9	37.6
88 TRANSYLVANIA	12	43.5	32	23.7	15.0
89 TYRRELL	2	54.5	7	36.8	26.0
90 UNION	21	20.6	91	19.2	23.0
91 VANCE	24	59.1	96	48.2	45.4
92 WAKE	78	14.5	386	15.5	21.9
93 WARREN	10	55.0	33	37.0	25.1
94 WASHINGTON	4	29.6	13	18.8	16.8
95 WATAUGA	7	17.3	22	11.2	11.1
96 WAYNE	34	30.3	137	25.0	27.7
97 WILKES	11	17.5	51	16.6	14.2
98 WILSON	19	27.8	113	33.5	30.9
99 YADKIN	11	31.7	46	27.9	22.2
100 YANCEY	6	36.9	17	21.3	14.1

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

Diabetes Mellitus

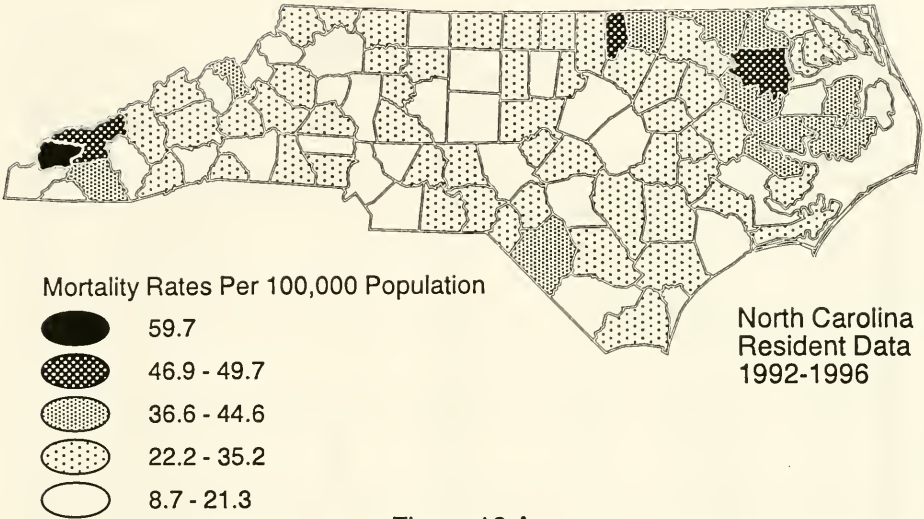


Figure 16.A

Diabetes Mellitus

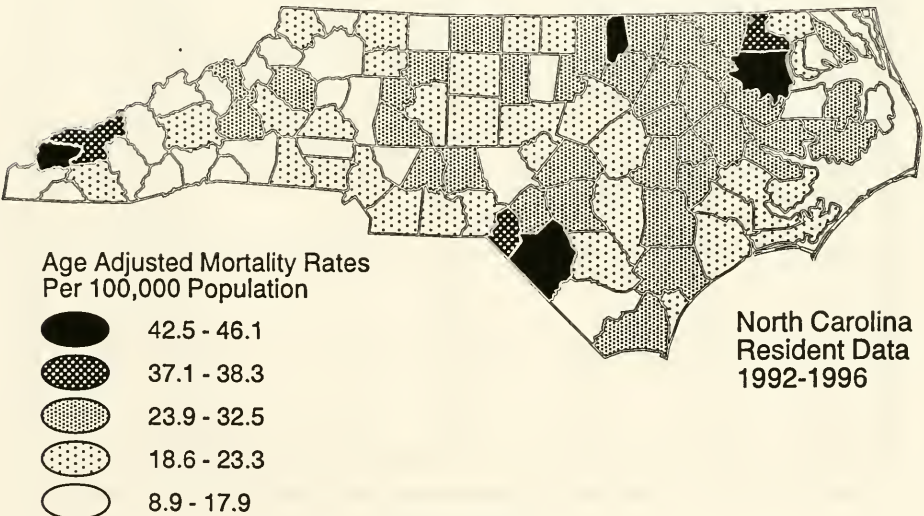


Figure 16.B

TABLE - 17
MORTALITY STATISTICS FOR 1996
NORTH CAROLINA RESIDENTS
PNEUMONIA AND INFLUENZA

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
NORTH CAROLINA	2523	34.5	11369	32.1	29.9

COUNTIES

1 ALAMANCE	33	28.0	138	24.2	18.9
2 ALEXANDER	12	39.2	60	40.7	40.0
3 ALLEGHANY	15	156.1	37	76.5	45.6
4 ANSON	12	50.4	69	57.9	42.3
5 ASHE	13	55.4	50	43.7	26.7
6 AVERY	12	78.8	44	58.3	41.9
7 BEAUFORT	18	41.7	90	41.7	30.9
8 BERTIE	9	43.8	41	39.9	32.8
9 BLADEN	17	56.5	78	53.0	42.0
10 BRUNSWICK	13	20.7	85	29.0	27.9
11 BUNCOMBE	107	56.1	389	41.9	27.4
12 BURKE	46	55.8	132	33.1	28.8
13 CABARRUS	48	42.3	250	46.3	40.7
14 CALDWELL	24	32.3	86	23.5	21.3
15 CAMDEN	2	31.5	8	25.9	22.2
16 CARTERET	12	20.6	57	20.1	17.5
17 CASWELL	7	32.6	31	29.2	22.1
18 CATAWBA	69	53.9	293	47.1	44.7
19 CHATHAM	23	51.8	82	38.8	29.0
20 CHEROKEE	12	54.4	49	45.7	27.5
21 CHOWAN	9	63.6	59	84.2	51.1
22 CLAY	4	51.0	10	26.5	17.6
23 CLEVELAND	39	43.2	211	47.9	39.4
24 COLUMBUS	18	34.7	97	38.1	33.1
25 CRAVEN	22	25.2	103	24.3	25.8
26 CUMBERLAND	60	20.4	227	15.6	27.7
27 CURRITUCK	4	24.4	38	49.3	49.8
28 DARE	12	45.2	59	47.4	53.6
29 DAVIDSON	36	26.0	167	24.8	23.3
30 DAVIE	16	52.3	61	41.4	32.0
31 DUPLIN	16	36.8	85	40.3	33.1
32 DURHAM	68	34.9	304	31.8	32.7
33 EDGECOMBE	18	32.1	96	34.0	31.7
34 FORSYTH	82	28.9	430	31.1	27.1
35 FRANKLIN	25	58.5	80	39.4	33.7
36 GASTON	72	40.2	312	35.1	33.1
37 GATES	9	91.2	24	49.4	41.9
38 GRAHAM	4	53.1	21	57.0	38.8
39 GRANVILLE	28	66.8	110	54.1	49.4
40 GREENE	2	11.6	17	20.6	18.5
41 GUILFORD	122	32.3	568	31.0	28.1
42 HALIFAX	20	35.4	93	32.6	27.0
43 HARNETT	36	45.3	149	39.7	39.7
44 HAYWOOD	35	69.1	144	58.3	34.0
45 HENDERSON	56	72.2	244	65.1	31.7

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

MORTALITY STATISTICS FOR 1996, NORTH CAROLINA RESIDENTS
PNEUMONIA AND INFLUENZA, CONT'D

COUNTIES (CONT'D)	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
46 HERTFORD	11	49.5	43	38.4	29.1
47 HOKE	4	14.2	24	18.4	22.6
48 HYDE	1	19.3	12	45.4	32.7
49 IREDELL	33	31.1	203	40.1	34.4
50 JACKSON	15	51.3	80	56.4	41.3
51 JOHNSTON	36	36.3	139	30.1	28.9
52 JONES	2	21.5	12	25.4	21.6
53 LEE	21	44.3	88	39.1	35.4
54 LENOIR	8	13.5	73	24.8	21.0
55 LINCOLN	20	35.2	98	36.0	35.4
56 MCDOWELL	16	41.8	61	33.0	24.7
57 MACON	13	48.1	66	51.3	25.6
58 MADISON	20	109.9	51	57.9	35.6
59 MARTIN	15	58.2	55	42.6	35.0
60 MECKLENBURG	137	23.1	580	20.6	24.2
61 MITCHELL	5	34.1	36	49.4	29.9
62 MONTGOMERY	6	24.6	30	25.2	22.1
63 MOORE	37	54.3	155	47.8	28.9
64 NASH	28	32.5	134	32.4	30.6
65 NEW HANOVER	29	20.2	170	25.1	23.3
66 NORTHAMPTON	10	47.9	45	43.5	31.0
67 ONSLOW	21	14.0	84	11.4	26.4
68 ORANGE	25	23.6	112	21.6	27.0
69 PAMLICO	7	58.3	27	46.0	28.6
70 PASQUOTANK	19	56.1	79	47.8	37.1
71 PENDER	7	19.5	47	28.0	24.3
72 PERQUIMANS	3	27.9	20	37.8	24.5
73 PERSON	21	64.6	59	37.4	29.5
74 PITT	24	20.1	150	25.9	30.1
75 POLK	15	92.6	52	66.9	26.5
76 RANDOLPH	32	27.0	138	24.3	22.6
77 RICHMOND	21	45.8	96	42.4	35.7
78 ROBESON	28	25.0	166	30.2	33.4
79 ROCKINGHAM	35	39.2	144	32.9	25.9
80 ROWAN	63	52.1	268	45.9	34.0
81 RUTHERFORD	28	47.2	191	65.2	46.5
82 SAMPSON	38	73.8	139	55.7	44.6
83 SCOTLAND	7	20.0	49	28.3	30.0
84 STANLY	19	34.8	63	23.5	18.7
85 STOKES	28	66.3	138	68.8	64.7
86 SURRY	24	36.4	116	36.1	27.5
87 SWAIN	8	67.5	36	62.5	44.0
88 TRANSYLVANIA	7	25.4	60	44.5	26.8
89 TYRRELL	4	109.0	11	57.8	33.4
90 UNION	35	34.3	120	25.3	31.4
91 VANCE	16	39.4	60	30.1	27.6
92 WAKE	68	12.6	414	16.6	23.4
93 WARREN	14	77.0	46	51.5	33.9
94 WASHINGTON	4	29.6	26	37.7	30.8
95 WATAUGA	13	32.1	61	31.1	30.4
96 WAYNE	29	25.8	127	23.2	26.1
97 WILKES	24	38.2	107	34.8	28.7
98 WILSON	30	43.8	126	37.3	34.5
99 YADKIN	13	37.4	63	38.2	28.2
100 YANCEY	9	55.4	41	51.3	31.2

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

Pneumonia and Influenza

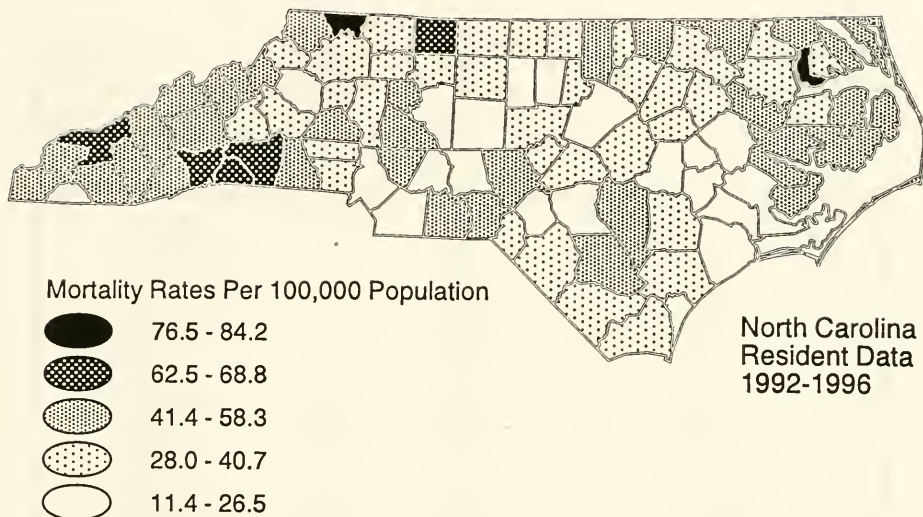


Figure 17.A

Pneumonia and Influenza

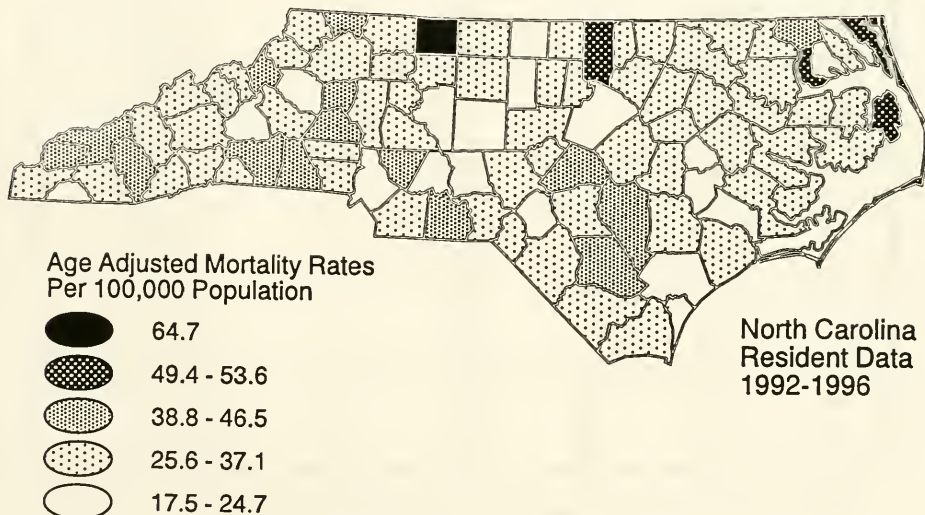


Figure 17.B

TABLE - 18
MORTALITY STATISTICS FOR 1996
NORTH CAROLINA RESIDENTS
CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD)

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
NORTH CAROLINA	3010	41.1	13656	38.6	37.2

COUNTIES

1 ALAMANCE	67	56.9	298	52.4	41.1
2 ALEXANDER	6	19.6	43	29.2	29.8
3 ALLEGHANY	6	62.4	33	68.2	41.3
4 ANSON	12	50.4	32	26.9	21.5
5 ASHE	19	80.9	94	82.1	54.6
6 AVERY	11	72.2	47	62.3	48.6
7 BEAUFORT	12	27.8	93	43.1	34.1
8 BERTIE	9	43.8	41	39.9	33.2
9 BLADEN	14	46.5	80	54.3	45.0
10 BRUNSWICK	33	52.5	138	47.0	38.9
11 BUNCOMBE	135	70.7	491	52.9	39.2
12 BURKE	47	57.0	190	47.6	41.5
13 CABARRUS	50	44.0	213	39.4	36.0
14 CALDWELL	25	33.7	155	42.4	39.3
15 CAMDEN	6	94.4	26	84.1	71.5
16 CARTERET	31	53.1	130	45.8	38.0
17 CASWELL	13	60.6	58	54.6	43.4
18 CATAWBA	54	42.2	225	36.2	34.7
19 CHATHAM	14	31.5	79	37.4	30.3
20 CHEROKEE	15	68.0	75	70.0	44.5
21 CHOWAN	6	42.4	44	62.8	42.7
22 CLAY	8	102.0	32	84.7	49.2
23 CLEVELAND	25	38.8	162	36.8	31.3
24 COLUMBUS	35	48.2	111	43.6	38.2
25 CRAVEN	41	47.0	169	39.8	41.2
26 CUMBERLAND	98	33.3	396	27.2	47.1
27 CURRITUCK	6	36.6	40	51.9	50.0
28 DARE	4	15.1	42	33.8	34.9
29 DAVIDSON	62	44.7	283	42.0	39.9
30 DAVIE	15	49.0	59	40.0	32.5
31 DUPLIN	14	32.2	80	37.9	31.9
32 DURHAM	60	30.8	275	28.7	32.5
33 EDGECOMBE	28	50.0	122	43.2	41.5
34 FORSYTH	116	40.8	584	42.2	39.6
35 FRANKLIN	11	25.7	58	28.6	26.2
36 GASTON	79	44.1	399	44.8	43.4
37 GATES	5	50.7	23	47.4	39.5
38 GRAHAM	6	79.6	27	73.3	51.4
39 GRANVILLE	21	50.1	69	33.9	32.5
40 GREENE	6	34.9	23	27.9	25.9
41 GUILFORD	159	42.1	753	41.1	39.4
42 HALIFAX	35	61.9	157	55.1	46.6
43 HARNETT	36	45.3	158	42.1	42.8
44 HAYWOOD	34	67.1	171	69.3	42.7
45 HENDERSON	53	68.3	254	67.8	38.3

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

MORTALITY STATISTICS FOR 1996, NORTH CAROLINA RESIDENTS
COPD - CHRONIC OBSTRUCTIVE PULMONARY DISEASE, CONT'D

COUNTIES (CONT'D)	NUMBER OF DEATHS	DEATH RATE*	NUMBER OF DEATHS	DEATH RATE*	ADJUSTED DEATH RATE*
	1996	1996	1992-1996	1992-1996	1992-1996
46 HERTFORD	7	31.5	41	36.6	28.2
47 HOKE	11	39.1	35	26.8	33.4
48 HYDE	1	19.3	13	49.2	35.8
49 IREDELL	55	51.8	222	43.9	38.6
50 JACKSON	15	51.3	74	52.2	43.0
51 JOHNSTON	33	33.3	147	31.9	30.6
52 JONES	9	96.5	31	65.5	55.2
53 LEE	12	25.3	63	28.0	24.7
54 LENOIR	23	38.8	137	46.6	39.7
55 LINCOLN	17	29.9	90	33.0	32.6
56 MCDOWELL	18	47.0	88	47.7	38.2
57 MACON	23	85.0	78	60.7	31.8
58 MADISON	15	82.4	60	68.1	47.1
59 MARTIN	10	38.8	47	36.4	29.7
60 MECKLENBURG	190	32.0	815	28.9	36.0
61 MITCHELL	9	61.4	46	63.1	39.7
62 MONTGOMERY	12	49.2	51	42.9	39.2
63 MOORE	45	66.1	162	50.0	29.7
64 NASH	28	32.5	160	38.7	37.1
65 NEW HANOVER	78	54.4	283	41.8	39.0
66 NORTHAMPTON	14	67.1	56	54.1	38.9
67 ONSLOW	38	25.3	152	20.6	47.5
68 ORANGE	23	21.7	95	18.3	24.5
69 PAMLICO	5	41.6	27	46.0	33.0
70 PASQUOTANK	21	62.0	84	50.8	44.5
71 PENDER	17	47.3	81	48.3	41.2
72 PERQUIMANS	7	65.1	22	41.5	26.6
73 PERSON	16	49.2	58	36.8	30.6
74 PITT	36	30.2	179	30.9	37.0
75 POLK	11	67.9	53	68.2	32.6
76 RANDOLPH	29	24.4	213	37.5	35.7
77 RICHMOND	31	67.6	115	50.8	43.7
78 ROBESON	40	35.7	171	31.2	34.6
79 ROCKINGHAM	52	58.3	239	54.5	44.6
80 ROWAN	63	52.1	264	45.2	36.0
81 RUTHERFORD	32	53.9	149	50.9	39.2
82 SAMPSON	24	46.6	119	47.7	39.0
83 SCOTLAND	9	25.7	65	37.5	39.3
84 STANLY	29	53.1	107	39.9	33.3
85 STOKES	8	18.9	65	32.4	31.5
86 SURRY	34	51.6	186	57.8	45.0
87 SWAIN	3	25.3	24	41.7	31.6
88 TRANSYLVANIA	14	50.8	60	44.5	27.3
89 TYRRELL	3	81.7	12	63.0	46.0
90 UNION	26	25.5	105	22.1	26.5
91 VANCE	20	49.2	95	47.7	44.3
92 WAKE	99	18.4	520	20.9	30.7
93 WARREN	9	49.5	42	47.1	29.8
94 WASHINGTON	7	51.8	27	39.1	33.0
95 WATAUGA	10	24.7	47	24.0	25.5
96 WAYNE	54	48.0	185	33.8	37.5
97 WILKES	24	38.2	118	38.4	32.9
98 WILSON	24	35.1	128	37.9	35.0
99 YADKIN	16	46.1	72	43.6	34.9
100 YANCEY	9	55.4	46	57.5	36.6

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

Chronic Obstructive Pulmonary Diseases

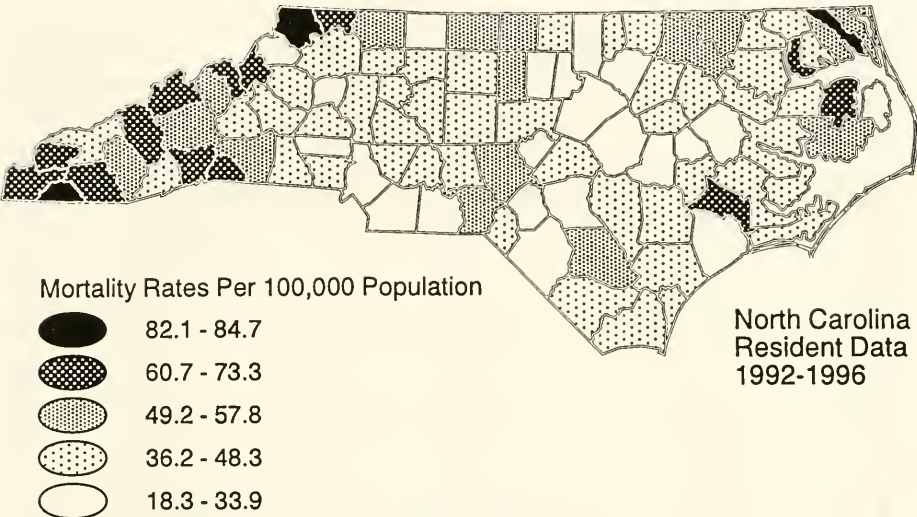


Figure 18.A

Chronic Obstructive Pulmonary Diseases

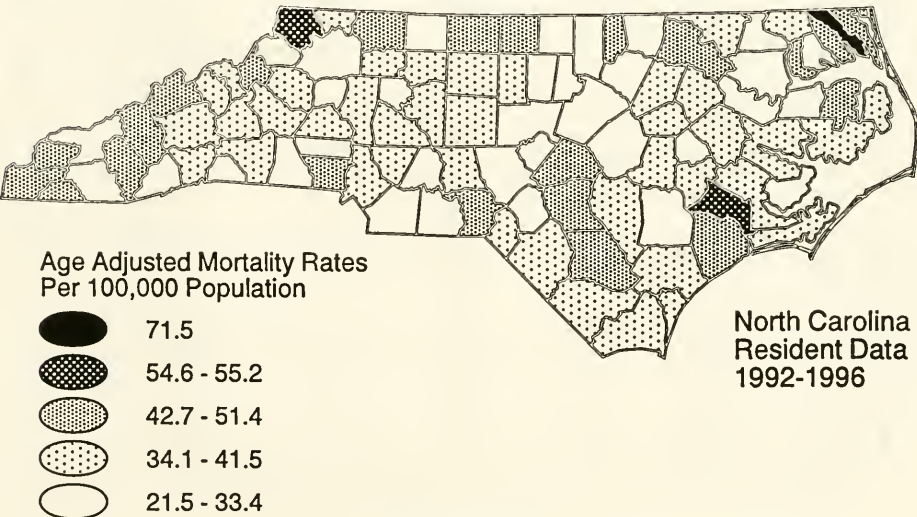


Figure 18.B

TABLE - 19
MORTALITY STATISTICS FOR 1996
NORTH CAROLINA RESIDENTS
CHRONIC LIVER DISEASE AND CIRRHOSIS

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
NORTH CAROLINA	690	9.4	3439	9.7	9.4

COUNTIES

1 ALAMANCE	10	8.5	62	10.9	9.4
2 ALEXANDER	1	3.3	18	12.2	11.6
3 ALLEGHANY	0	0.0	5	10.3	7.0
4 ANSON	3	12.6	12	10.1	9.6
5 ASHE	2	8.5	14	12.2	9.4
6 AVERY	1	6.6	10	13.2	11.3
7 BEAUFORT	5	11.6	24	11.1	9.3
8 BERTIE	5	24.4	14	13.6	12.3
9 BLADEN	5	16.6	22	14.9	13.2
10 BRUNSWICK	12	19.1	44	15.0	12.5
11 BUNCOMBE	26	13.6	128	13.8	11.6
12 BURKE	10	12.1	40	10.0	9.1
13 CABARRUS	10	8.8	36	6.7	6.1
14 CALDWELL	8	10.8	32	8.8	7.9
15 CAMDEN	1	15.7	2	6.5	5.0
16 CARTERET	8	13.7	26	9.2	7.6
17 CASWELL	2	9.3	16	15.1	13.2
18 CATAWBA	9	7.0	75	12.1	11.2
19 CHATHAM	1	2.3	15	7.1	6.3
20 CHEROKEE	4	18.1	9	8.4	7.1
21 CHOWAN	3	21.2	13	18.6	15.9
22 CLAY	1	12.8	5	13.2	8.7
23 CLEVELAND	12	13.3	60	13.6	12.3
24 COLUMBUS	2	3.9	27	10.6	9.5
25 CRAVEN	13	14.9	45	10.6	10.9
26 CUMBERLAND	22	7.5	110	7.6	9.5
27 CURRITUCK	2	12.2	13	16.9	15.6
28 DARE	4	15.1	12	9.6	8.9
29 DAVIDSON	14	10.1	52	7.7	7.2
30 DAVIE	2	6.5	13	8.8	7.4
31 DUPLIN	3	6.9	19	9.0	7.9
32 DURHAM	15	7.7	70	7.3	8.1
33 EDGECOMBE	8	14.3	47	16.6	16.2
34 FORSYTH	30	10.6	120	8.7	8.2
35 FRANKLIN	1	2.3	29	14.3	13.8
36 GASTON	24	13.4	126	14.2	13.6
37 GATES	0	0.0	2	4.1	3.2
38 GRAHAM	1	13.3	2	5.4	4.0
39 GRANVILLE	3	7.2	17	8.4	7.9
40 GREENE	2	11.6	7	8.5	7.8
41 GUILFORD	38	10.1	177	9.7	9.4
42 HALIFAX	9	15.9	52	18.3	17.4
43 HARNETT	10	12.6	36	9.6	9.7
44 HAYWOOD	9	17.8	34	13.8	10.1
45 HENDERSON	7	9.0	43	11.5	8.5

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

MORTALITY STATISTICS FOR 1996, NORTH CAROLINA RESIDENTS
CHRONIC LIVER DISEASE AND CIRRHOSIS, CONT'D

COUNTIES (CONT'D)	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
46 HERTFORD	7	31.5	20	17.9	16.2
47 HOKE	3	10.7	10	7.7	8.4
48 HYDE	0	0.0	2	7.6	6.3
49 IREDELL	8	7.5	47	9.3	8.4
50 JACKSON	4	13.7	20	14.1	12.5
51 JOHNSTON	12	12.1	50	10.8	10.2
52 JONES	0	0.0	3	6.3	5.2
53 LEE	8	16.9	22	9.8	9.1
54 LENOIR	6	10.1	37	12.6	11.5
55 LINCOLN	6	10.6	29	10.6	10.4
56 MCDOWELL	4	10.4	26	14.1	12.1
57 MACON	1	3.7	8	6.2	4.3
58 MADISON	2	11.0	9	10.2	7.9
59 MARTIN	2	7.8	10	7.7	6.6
60 MECKLENBURG	46	7.8	240	8.5	9.4
61 MITCHELL	0	0.0	3	4.1	3.0
62 MONTGOMERY	3	12.3	7	5.9	5.5
63 MOORE	5	7.3	35	10.8	8.1
64 NASH	10	11.6	46	11.1	10.6
65 NEW HANOVER	12	8.4	82	12.1	11.3
66 NORTHAMPTON	1	4.8	12	11.6	9.4
67 ONSLOW	12	8.0	42	5.7	10.1
68 ORANGE	7	6.6	23	4.4	5.2
69 PAMLICO	0	0.0	5	8.5	7.1
70 PASQUOTANK	1	3.0	11	6.7	6.9
71 PENDER	4	11.1	20	11.9	10.5
72 PERQUIMANS	1	9.3	7	13.2	10.3
73 PERSON	7	21.5	23	14.6	13.2
74 PITT	11	9.2	60	10.3	12.0
75 POLK	1	6.2	11	14.1	10.8
76 RANDOLPH	8	6.7	40	7.0	6.7
77 RICHMOND	4	8.7	29	12.8	11.5
78 ROBESON	16	14.3	65	11.8	12.7
79 ROCKINGHAM	5	5.6	56	12.8	11.0
80 ROWAN	9	7.4	43	7.4	6.2
81 RUTHERFORD	7	11.8	33	11.3	9.7
82 SAMPSON	4	7.8	35	14.0	12.3
83 SCOTLAND	10	28.5	24	13.9	14.3
84 STANLY	3	5.5	22	8.2	7.4
85 STOKES	1	2.4	11	5.5	5.1
86 SURRY	3	4.6	22	6.8	5.6
87 SWAIN	2	16.9	11	19.1	17.6
88 TRANSYLVANIA	5	18.1	14	10.4	7.9
89 TYRRELL	0	0.0	2	10.5	9.7
90 UNION	4	3.9	33	7.0	7.4
91 VANCE	5	12.3	35	17.6	17.0
92 WAKE	22	4.1	141	5.7	7.1
93 WARREN	4	22.0	13	14.6	12.5
94 WASHINGTON	0	0.0	1	1.4	1.3
95 WATAUGA	2	4.9	6	3.1	3.6
96 WAYNE	15	13.3	60	11.0	11.1
97 WILKES	6	9.6	21	6.8	5.9
98 WILSON	7	10.2	48	14.2	13.1
99 YADKIN	3	8.6	11	6.7	5.7
100 YANCEY	3	18.5	8	10.0	7.7

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

STATE CENTER FOR HEALTH STATISTICS
DEPARTMENT OF HEALTH AND HUMAN SERVICES

Chronic Liver Disease and Cirrhosis

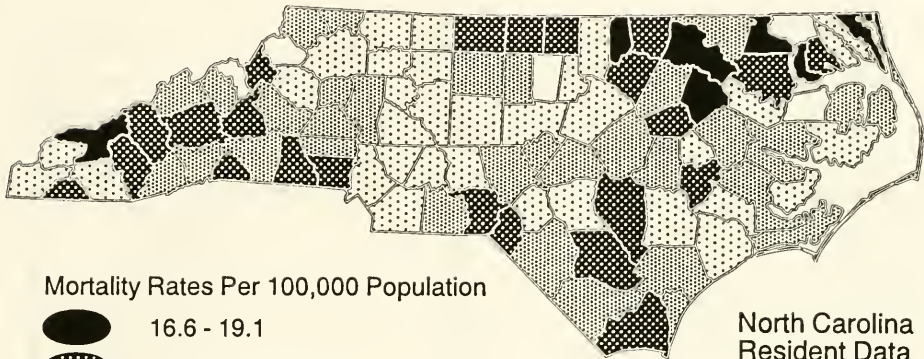


Figure 19.A

Chronic Liver Disease and Cirrhosis

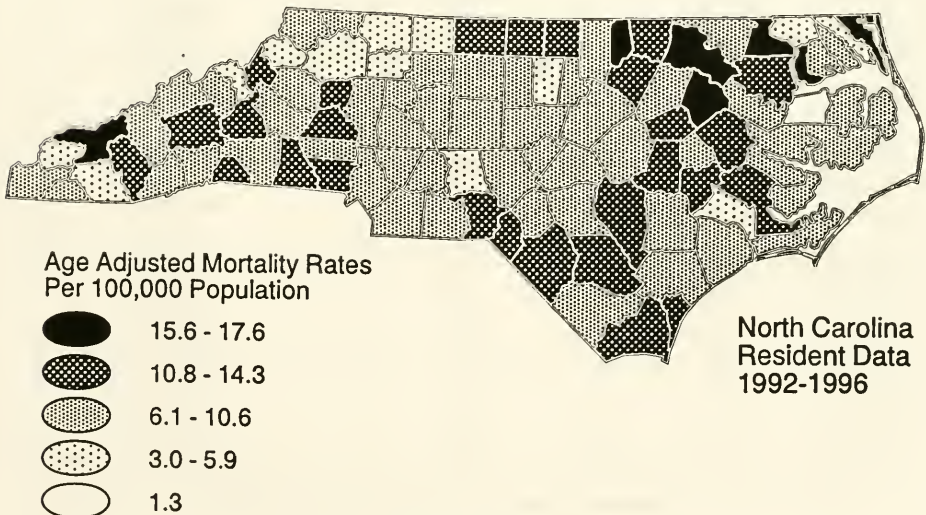


Figure 19.B

TABLE - 20
MORTALITY STATISTICS FOR 1996
NORTH CAROLINA RESIDENTS
NEPHRITIS AND NEPHROSIS

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
NORTH CAROLINA	710	9.7	3153	8.9	8.4

COUNTIES

1 ALAMANCE	15	12.7	55	9.7	7.7
2 ALEXANDER	4	13.1	19	12.9	12.8
3 ALLEGHANY	2	20.8	4	8.3	4.9
4 ANSON	5	21.0	19	16.0	12.1
5 ASHE	4	17.0	18	15.7	9.6
6 AVERY	2	13.1	13	17.2	13.2
7 BEAUFORT	6	13.9	21	9.7	7.5
8 BERTIE	3	14.6	14	13.6	11.3
9 BLADEN	8	26.6	22	14.9	12.0
10 BRUNSWICK	5	8.0	18	6.1	5.8
11 BUNCOMBE	37	19.4	96	10.3	7.1
12 BURKE	6	7.3	29	7.3	6.3
13 CABARRUS	9	7.9	51	9.4	8.5
14 CALDWELL	9	12.1	27	7.4	6.8
15 CAMDEN	0	0.0	3	9.7	8.6
16 CARTERET	3	5.1	19	6.7	5.7
17 CASWELL	3	14.0	11	10.4	8.3
18 CATAWBA	7	5.5	74	11.9	11.4
19 CHATHAM	5	11.3	15	7.1	5.7
20 CHEROKEE	2	9.1	14	13.1	8.6
21 CHOWAN	2	14.1	10	14.3	8.8
22 CLAY	3	38.3	3	7.9	4.2
23 CLEVELAND	6	6.6	37	8.4	7.0
24 COLUMBUS	4	7.7	36	14.1	12.2
25 CRAVEN	4	4.6	33	7.8	8.1
26 CUMBERLAND	15	5.1	72	5.0	8.0
27 CURRITUCK	2	12.2	4	5.2	5.4
28 DARE	3	11.3	7	5.6	6.0
29 DAVIDSON	20	14.4	66	9.8	9.3
30 DAVIE	5	16.3	22	14.9	11.9
31 DUPLIN	6	13.8	34	16.1	13.2
32 DURHAM	14	7.2	124	13.0	13.9
33 EDGECOMBE	8	14.3	37	13.1	12.5
34 FORSYTH	30	10.6	155	11.2	10.0
35 FRANKLIN	3	7.0	23	11.3	10.2
36 GASTON	22	12.3	91	10.2	9.8
37 GATES	2	20.3	11	22.7	19.7
38 GRAHAM	0	0.0	5	13.6	9.6
39 GRANVILLE	7	16.7	27	13.3	12.5
40 GREENE	0	0.0	8	9.7	8.8
41 GUILFORD	29	7.7	121	6.6	6.2
42 HALIFAX	5	8.8	28	9.8	8.4
43 HARNETT	3	3.8	34	9.1	9.1
44 HAYWOOD	3	5.9	26	10.5	6.5
45 HENDERSON	7	9.0	46	12.3	6.3

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

MORTALITY STATISTICS FOR 1996, NORTH CAROLINA RESIDENTS
NEPHRITIS AND NEPHROSIS, CONT'D

COUNTIES (CONT'D)	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
46 HERTFORD	2	9.0	15	13.4	10.4
47 HOKE	3	10.7	13	10.0	12.0
48 HYDE	2	38.5	5	18.9	14.4
49 IREDELL	9	8.5	45	8.9	7.9
50 JACKSON	3	10.3	13	9.2	7.7
51 JOHNSTON	11	11.1	50	10.8	10.4
52 JONES	1	10.7	11	23.2	19.8
53 LEE	7	14.8	29	12.9	11.7
54 LENOIR	12	20.2	48	16.3	13.8
55 LINCOLN	7	12.3	27	9.9	9.8
56 MCDOWELL	4	10.4	18	9.8	7.7
57 MACON	2	7.4	7	5.4	2.7
58 MADISON	1	5.5	8	9.1	6.1
59 MARTIN	5	19.4	14	10.8	8.7
60 MECKLENBURG	47	7.9	172	6.1	7.4
61 MITCHELL	2	13.7	7	9.6	5.4
62 MONTGOMERY	1	4.1	16	13.5	11.9
63 MOORE	10	14.7	31	9.6	5.3
64 NASH	7	8.1	42	10.2	9.8
65 NEW HANOVER	20	13.9	71	10.5	9.8
66 NORTHAMPTON	4	19.2	13	12.6	8.8
67 ONSLOW	6	4.0	26	3.5	7.8
68 ORANGE	9	8.5	33	6.4	8.2
69 PAMLICO	2	16.7	5	8.5	5.5
70 PASQUOTANK	6	17.7	18	10.9	8.6
71 PENDER	4	11.1	19	11.3	10.0
72 PERQUIMANS	0	0.0	4	7.6	5.3
73 PERSON	4	12.3	16	10.1	7.8
74 PITT	13	10.9	57	9.8	11.6
75 POLK	0	0.0	5	6.4	2.7
76 RANDOLPH	11	9.3	41	7.2	6.8
77 RICHMOND	6	13.1	32	14.1	12.4
78 ROBESON	18	16.1	57	10.4	11.5
79 ROCKINGHAM	21	23.5	57	13.0	10.3
80 ROWAN	10	8.3	58	9.9	7.5
81 RUTHERFORD	4	6.7	22	7.5	5.5
82 SAMPSON	7	13.6	31	12.4	10.1
83 SCOTLAND	2	5.7	14	8.1	8.5
84 STANLY	6	11.0	19	7.1	5.7
85 STOKES	4	9.5	15	7.5	7.3
86 SURRY	14	21.3	42	13.1	9.8
87 SWAIN	0	0.0	5	8.7	6.4
88 TRANSYLVANIA	1	3.6	7	5.2	3.2
89 TYRRELL	0	0.0	1	5.3	4.0
90 UNION	7	6.9	36	7.6	9.1
91 VANCE	2	4.9	25	12.5	11.9
92 WAKE	28	5.2	123	4.9	7.1
93 WARREN	2	11.0	10	11.2	7.3
94 WASHINGTON	1	7.4	5	7.2	6.0
95 WATAUGA	1	2.5	9	4.6	4.8
96 WAYNE	5	4.4	39	7.1	8.0
97 WILKES	10	15.9	32	10.4	8.7
98 WILSON	1	1.5	12	3.6	3.2
99 YADKIN	5	14.4	15	9.1	6.9
100 YANCEY	2	12.3	6	7.5	4.9

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

STATE CENTER FOR HEALTH STATISTICS
DEPARTMENT OF HEALTH AND HUMAN SERVICES

Nephritis and Nephrosis

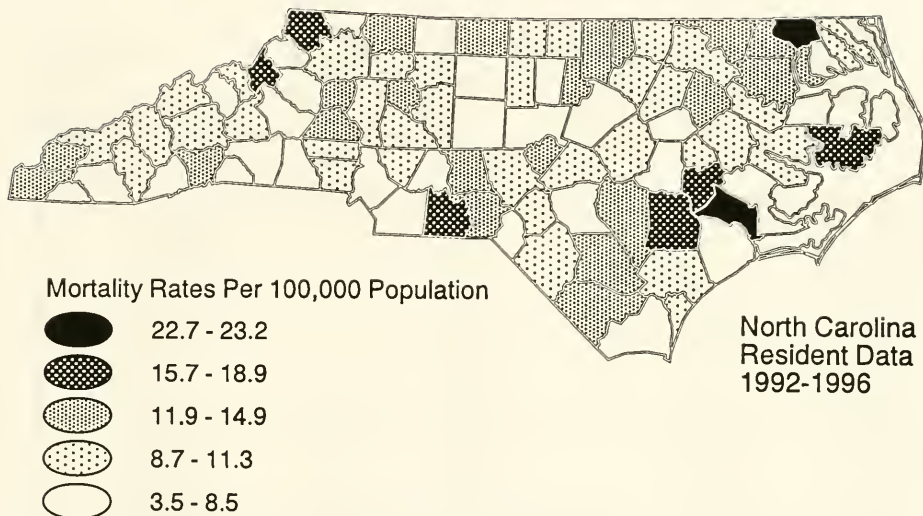


Figure 20.A

Nephritis and Nephrosis

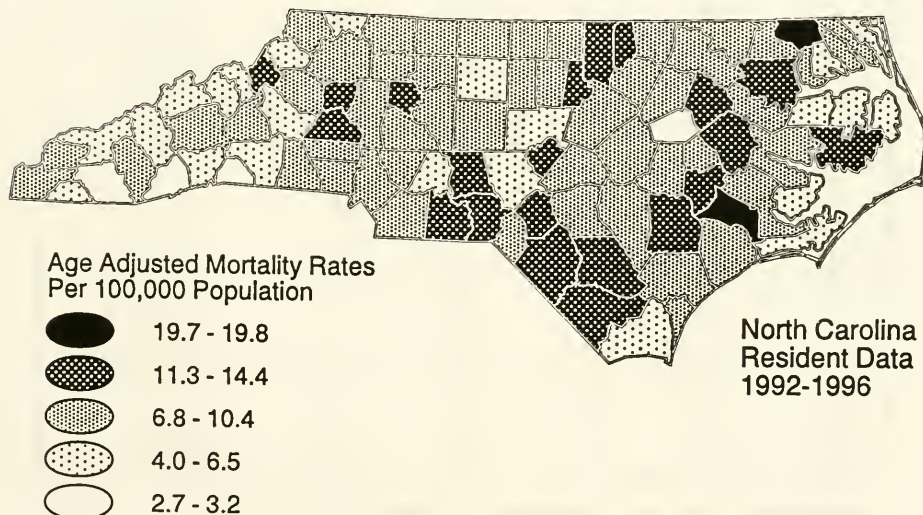


Figure 20.B

TABLE - 21
MORTALITY STATISTICS FOR 1996
NORTH CAROLINA RESIDENTS
UNINTENTIONAL MOTOR VEHICLE INJURIES

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
NORTH CAROLINA	1499	20.5	7168	20.3	20.5

COUNTIES

1	ALAMANCE	18	15.3	93	16.3	16.2
2	ALEXANDER	6	19.6	32	21.7	22.8
3	ALLEGHANY	1	10.4	11	22.7	23.3
4	ANSON	8	33.6	39	32.7	33.3
5	ASHE	3	12.8	23	20.1	21.1
6	AVERY	1	6.6	5	6.6	6.4
7	BEAUFORT	17	39.3	54	25.0	24.7
8	BERTIE	8	39.0	30	29.2	30.0
9	BLADEN	9	29.9	52	35.3	35.2
10	BRUNSWICK	25	39.8	90	30.7	31.8
11	BUNCOMBE	29	15.2	141	15.2	15.1
12	BURKE	20	24.2	82	20.6	21.0
13	CABARRUS	17	15.0	77	14.3	14.7
14	CALDWELL	16	21.5	78	21.4	22.0
15	CAMDEN	0	0.0	9	29.1	27.9
16	CARTERET	18	30.9	63	22.2	23.9
17	CASWELL	9	42.0	38	35.8	35.5
18	CATAWBA	35	27.3	132	21.2	21.9
19	CHATHAM	17	38.3	68	32.2	34.2
20	CHEROKEE	1	4.5	19	17.7	18.5
21	CHOWAN	4	28.3	19	27.1	26.5
22	CLAY	1	12.8	8	21.2	20.8
23	CLEVELAND	19	21.0	100	22.7	23.7
24	COLUMBUS	21	40.5	99	38.9	39.5
25	Craven	14	16.1	80	18.8	19.2
26	CUMBERLAND	70	23.8	302	20.8	20.9
27	CURRITUCK	4	24.4	25	32.4	32.8
28	DARE	2	7.5	21	16.9	18.2
29	DAVIDSON	29	20.9	140	20.8	21.3
30	DAVIE	4	13.1	30	20.3	20.7
31	DUPLIN	15	34.5	77	36.5	38.3
32	DURHAM	26	13.3	114	11.9	11.7
33	EDGECOMBE	13	23.2	78	27.6	29.3
34	FORSYTH	35	12.3	183	13.2	13.6
35	FRANKLIN	11	25.7	68	33.5	33.6
36	GASTON	32	17.9	156	17.5	18.0
37	GATES	2	20.3	22	45.3	46.5
38	GRAHAM	2	26.5	7	19.0	15.6
39	GRANVILLE	17	40.6	51	25.1	25.0
40	GREENE	9	52.4	22	26.7	28.1
41	GUILFORD	53	14.0	304	16.6	16.5
42	HALIFAX	14	24.8	89	31.2	32.5
43	HARNETT	24	30.2	105	28.0	28.3
44	HAYWOOD	5	9.9	38	15.4	15.2
45	HENDERSON	16	20.6	76	20.3	23.0

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

MORTALITY STATISTICS FOR 1996, NORTH CAROLINA RESIDENTS
UNINTENTIONAL MOTOR VEHICLE INJURIES, CONT'D

COUNTIES (CONT'D)	NUMBER OF DEATHS	DEATH RATE*	NUMBER OF DEATHS	DEATH RATE*	ADJUSTED DEATH RATE*
	1996	1996	1992-1996	1992-1996	1992-1996
46 HERTFORD	6	27.0	31	27.7	28.8
47 HOKE	8	28.4	46	35.3	35.7
48 HYDE	0	0.0	9	34.0	38.2
49 IREDELL	27	25.4	94	18.6	18.9
50 JACKSON	8	27.4	28	19.7	18.7
51 JOHNSTON	28	28.2	138	29.9	30.9
52 JONES	2	21.5	13	27.5	28.0
53 LEE	14	29.5	59	26.2	27.8
54 LENOIR	9	15.2	56	19.0	19.4
55 LINCOLN	19	33.4	69	25.3	26.2
56 MCDOWELL	12	31.3	48	26.0	26.8
57 MACON	6	22.2	28	21.8	18.5
58 MADISON	1	5.5	27	30.7	27.8
59 MARTIN	6	23.3	42	32.5	35.1
60 MECKLENBURG	75	12.6	346	12.3	12.5
61 MITCHELL	4	27.3	17	23.3	22.6
62 MONTGOMERY	16	65.6	34	28.6	29.2
63 MOORE	13	19.1	79	24.4	26.7
64 NASH	32	37.2	106	25.7	26.6
65 NEW HANOVER	14	9.8	73	10.8	10.7
66 NORTHAMPTON	3	14.4	32	30.9	33.0
67 ONSLOW	33	22.0	158	21.4	20.2
68 ORANGE	11	10.4	82	15.8	15.6
69 PAMLICO	3	25.0	18	30.7	29.9
70 PASQUOTANK	2	5.9	26	15.7	15.9
71 PENDER	8	22.2	43	25.6	26.9
72 PERQUIMANS	2	18.6	14	26.4	23.4
73 PERSON	9	27.7	39	24.7	24.6
74 PITT	33	27.7	115	19.8	19.6
75 POLK	4	24.7	20	25.7	25.3
76 RANDOLPH	18	15.2	129	22.7	24.0
77 RICHMOND	17	37.1	89	39.3	40.2
78 ROBESON	36	32.1	205	37.4	38.7
79 ROCKINGHAM	27	30.3	110	25.1	26.2
80 ROWAN	23	19.0	112	19.2	19.5
81 RUTHERFORD	16	27.0	81	27.6	28.0
82 SAMPSON	16	31.1	96	38.5	39.8
83 SCOTLAND	20	57.1	58	33.5	34.5
84 STANLY	15	27.5	57	21.3	20.7
85 STOKES	8	18.9	35	17.4	18.0
86 SURRY	13	19.7	72	22.4	22.5
87 SWAIN	6	50.6	22	38.2	39.9
88 TRANSYLVANIA	1	3.6	16	11.9	11.6
89 TYRRELL	1	27.2	5	26.3	28.3
90 UNION	22	21.6	126	26.6	28.0
91 VANCE	5	12.3	39	19.6	20.2
92 WAKE	62	11.5	286	11.5	11.9
93 WARREN	5	27.5	27	30.3	32.3
94 WASHINGTON	0	0.0	18	26.1	25.4
95 WATAUGA	4	9.9	22	11.2	11.2
96 WAYNE	30	26.7	113	20.6	21.3
97 WILKES	15	23.9	76	24.7	24.7
98 WILSON	16	23.4	83	24.6	25.4
99 YADKIN	8	23.0	39	23.6	23.4
100 YANCEY	7	43.1	12	15.0	14.4

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

Motor Vehicle Injuries

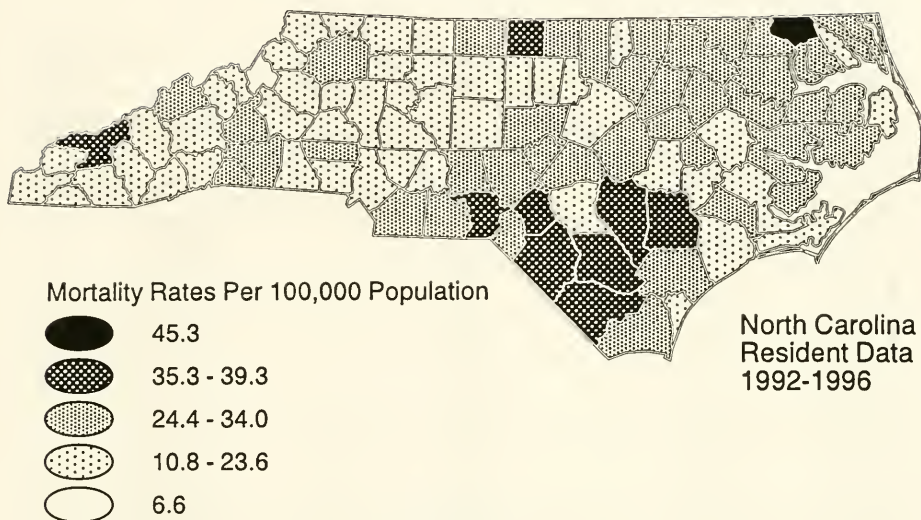


Figure 21.A

Motor Vehicle Injuries

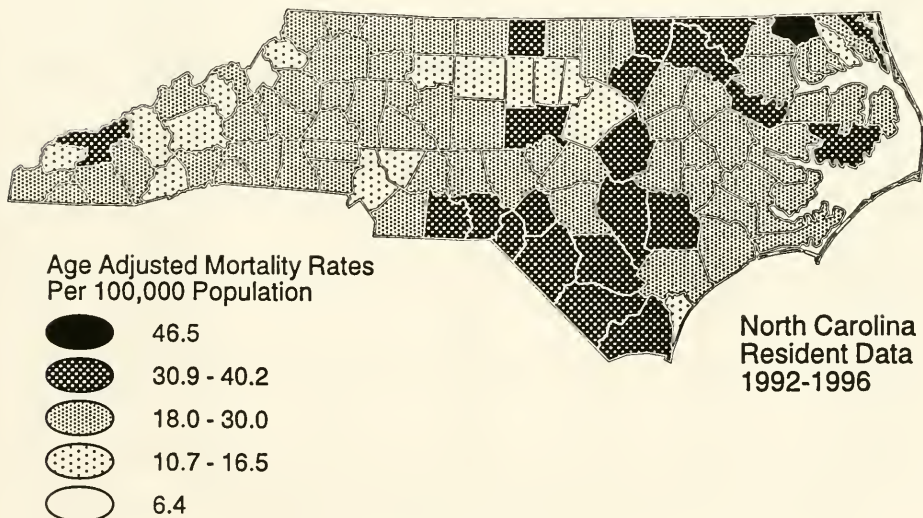


Figure 21.B

TABLE - 22
MORTALITY STATISTICS FOR 1996
NORTH CAROLINA RESIDENTS
ALL OTHER UNINTENTIONAL INJURIES

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
NORTH CAROLINA	1605	21.9	7334	20.7	20.1

COUNTIES

1 ALAMANCE	20	17.0	114	20.0	17.6
2 ALEXANDER	15	49.0	45	30.5	30.7
3 ALLEGHANY	4	41.6	14	28.9	20.0
4 ANSON	4	16.8	22	18.5	16.2
5 ASHE	5	21.3	30	26.2	20.4
6 AVERY	3	19.7	19	25.2	21.0
7 BEAUFORT	9	20.8	64	29.7	26.6
8 BERTIE	4	19.5	25	24.3	23.3
9 BLADEN	8	26.6	43	29.2	27.4
10 BRUNSWICK	11	17.5	71	24.2	22.6
11 BUNCOMBE	45	23.6	229	24.7	20.5
12 BURKE	22	26.7	87	21.8	20.5
13 CABARRUS	27	23.8	103	19.1	17.9
14 CALDWELL	15	20.2	60	16.4	15.7
15 CAMDEN	2	31.5	5	16.2	14.3
16 CARTERET	26	44.6	85	30.0	27.4
17 CASWELL	6	28.0	26	24.5	21.7
18 CATAWBA	32	25.0	121	19.4	18.9
19 CHATHAM	7	15.8	48	22.7	19.2
20 CHEROKEE	4	18.1	27	25.2	21.3
21 CHOWAN	5	35.3	18	25.7	21.3
22 CLAY	2	25.5	8	21.2	14.6
23 CLEVELAND	24	26.6	90	20.4	18.6
24 COLUMBUS	13	25.1	70	27.5	26.0
25 CRAVEN	26	29.8	83	19.6	20.1
26 CUMBERLAND	59	20.1	262	18.0	22.7
27 CURRITUCK	2	12.2	13	16.9	17.4
28 DARE	5	18.8	26	20.9	21.6
29 DAVIDSON	27	19.5	127	18.8	18.2
30 DAVIE	8	26.2	25	17.0	14.7
31 DUPLIN	13	29.9	46	21.8	20.6
32 DURHAM	53	27.2	213	22.3	22.8
33 EDGECOMBE	15	26.8	63	22.3	22.2
34 FORSYTH	65	22.9	286	20.7	18.9
35 FRANKLIN	6	14.0	34	16.7	15.4
36 GASTON	28	15.6	166	18.7	18.3
37 GATES	0	0.0	10	20.6	17.7
38 GRAHAM	3	39.8	8	21.7	21.2
39 GRANVILLE	13	31.0	44	21.6	21.2
40 GREENE	4	23.3	17	20.6	19.9
41 GUILFORD	84	22.2	399	21.8	20.5
42 HALIFAX	19	33.6	72	25.3	23.3
43 HARNETT	10	12.6	73	19.5	19.7
44 HAYWOOD	10	19.7	66	26.7	19.4
45 HENDERSON	21	27.1	88	23.5	17.0

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

MORTALITY STATISTICS FOR 1996, NORTH CAROLINA RESIDENTS
ALL OTHER UNINTENTIONAL INJURIES, CONT'D

COUNTIES (CONT'D)	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
46 HERTFORD	8	36.0	40	35.7	33.8
47 HOKE	9	32.0	38	29.1	32.2
48 HYDE	0	0.0	9	34.0	27.2
49 IREDELL	29	27.3	103	20.4	18.8
50 JACKSON	8	27.4	36	25.4	22.8
51 JOHNSTON	22	22.2	111	24.1	23.7
52 JONES	6	64.4	13	27.5	23.1
53 LEE	7	14.8	51	22.6	22.0
54 LENOIR	21	35.4	70	23.8	22.8
55 LINCOLN	13	22.9	56	20.5	20.7
56 MCDOWELL	10	26.1	47	25.5	23.1
57 MACON	5	18.5	33	25.7	17.5
58 MADISON	4	22.0	23	26.1	19.1
59 MARTIN	10	38.8	35	27.1	24.6
60 MECKLENBURG	91	15.3	432	15.3	16.7
61 MITCHELL	8	54.6	25	34.3	30.1
62 MONTGOMERY	7	28.7	36	30.3	28.5
63 MOORE	16	23.5	76	23.5	20.2
64 NASH	15	17.4	73	17.7	17.1
65 NEW HANOVER	19	13.2	124	18.3	17.8
66 NORTHAMPTON	6	28.8	26	25.1	21.3
67 ONSLOW	31	20.6	113	15.3	21.2
68 ORANGE	13	12.3	64	12.3	14.2
69 PAMLICO	5	41.6	14	23.8	21.5
70 PASQUOTANK	13	38.4	51	30.8	29.4
71 PENDER	8	22.2	38	22.7	21.3
72 PERQUIMANS	2	18.6	19	35.9	28.0
73 PERSON	10	30.8	45	28.5	26.0
74 PITT	26	21.8	149	25.7	27.9
75 POLK	3	18.5	24	30.9	21.3
76 RANDOLPH	21	17.7	103	18.1	17.7
77 RICHMOND	12	26.2	39	17.2	16.8
78 ROBESON	27	24.1	155	28.2	29.9
79 ROCKINGHAM	20	22.4	87	19.9	17.7
80 ROWAN	23	19.0	125	21.4	18.2
81 RUTHERFORD	12	20.2	71	24.2	21.0
82 SAMPSON	14	27.2	57	22.8	21.5
83 SCOTLAND	16	45.7	42	24.3	25.5
84 STANLY	7	12.8	55	20.5	19.1
85 STOKES	5	11.8	50	24.9	25.1
86 SURRY	18	27.3	85	26.4	21.9
87 SWAIN	7	59.1	32	55.6	44.9
88 TRANSYLVANIA	4	14.5	31	23.0	18.1
89 TYRRELL	1	27.2	1	5.3	4.7
90 UNION	17	16.7	76	16.0	17.5
91 VANCE	16	39.4	62	31.1	29.6
92 WAKE	87	16.1	343	13.8	16.3
93 WARREN	8	44.0	27	30.3	25.4
94 WASHINGTON	0	0.0	10	14.5	14.5
95 WATAUGA	6	14.8	27	13.8	14.7
96 WAYNE	28	24.9	116	21.2	22.0
97 WILKES	26	41.4	80	26.0	23.5
98 WILSON	9	13.1	84	24.9	24.0
99 YADKIN	6	17.3	34	20.6	17.7
100 YANCEY	6	36.9	23	28.8	21.7

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

All Other Injuries and Adverse Effects

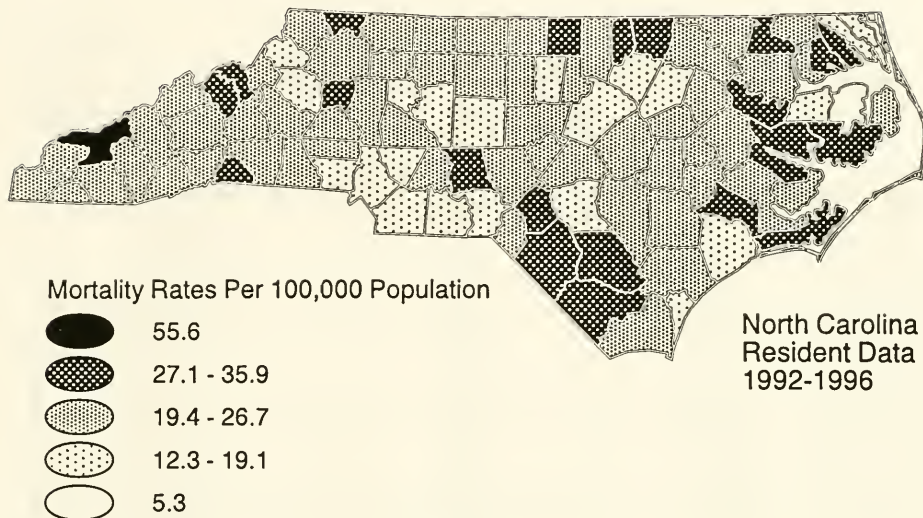


Figure 22.A

All Other Injuries and Adverse Effects

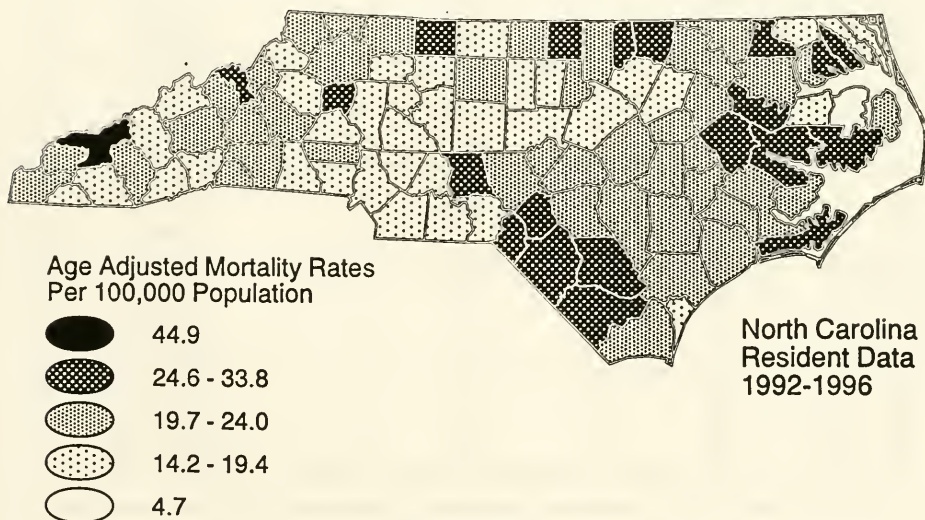


Figure 22.B

TABLE - 23
MORTALITY STATISTICS FOR 1996
NORTH CAROLINA RESIDENTS
SUICIDE

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
NORTH CAROLINA	904	12.3	4385	12.4	12.4

COUNTIES

1	ALAMANCE	22	18.7	90	15.8	15.4
2	ALEXANDER	6	19.6	24	16.3	16.0
3	ALLEGHANY	0	0.0	13	26.9	26.9
4	ANSON	5	21.0	20	16.8	16.4
5	ASHE	2	8.5	27	23.6	24.6
6	AVERY	2	13.1	15	19.9	17.9
7	BEAUFORT	10	23.1	29	13.4	13.2
8	BERTIE	0	0.0	7	6.8	6.8
9	BLADEN	3	10.0	22	14.9	14.7
10	BRUNSWICK	9	14.3	51	17.4	17.6
11	BUNCOMBE	28	14.7	153	16.5	16.1
12	BURKE	16	19.4	65	16.3	15.6
13	CABARRUS	15	13.2	67	12.4	12.3
14	CALDWELL	11	14.8	48	13.1	13.1
15	CAMDEN	0	0.0	3	9.7	11.0
16	CARTERET	12	20.6	33	11.6	11.9
17	CASWELL	1	4.7	12	11.3	11.1
18	CATAWBA	13	10.2	80	12.9	12.8
19	CHATHAM	5	11.3	28	13.3	13.1
20	CHEROKEE	3	13.6	12	11.2	11.1
21	CHOWAN	0	0.0	3	4.3	2.8
22	CLAY	2	25.5	4	10.6	8.9
23	CLEVELAND	10	11.1	46	10.4	9.8
24	COLUMBUS	8	15.4	36	14.1	13.7
25	Craven	14	16.1	55	13.0	13.3
26	CUMBERLAND	48	16.3	184	12.7	13.7
27	CURRITUCK	3	18.3	14	18.2	19.0
28	DARE	3	11.3	16	12.9	12.0
29	DAVIDSON	22	15.9	90	13.3	13.0
30	DAVIE	2	6.5	16	10.8	10.3
31	DUPLIN	2	4.6	26	12.3	11.9
32	DURHAM	22	11.3	111	11.6	11.6
33	EDGECOMBE	2	3.6	27	9.6	9.7
34	FORSYTH	25	8.8	176	12.7	12.8
35	FRANKLIN	11	25.7	38	18.7	18.8
36	GASTON	33	18.4	113	12.7	12.9
37	GATES	1	10.1	7	14.4	14.7
38	GRAHAM	2	26.5	6	16.3	15.0
39	GRANVILLE	5	11.9	27	13.3	13.1
40	GREENE	3	17.5	8	9.7	9.5
41	GUILFORD	39	10.3	198	10.8	10.8
42	HALIFAX	7	12.4	30	10.5	10.4
43	HARNETT	12	15.1	51	13.6	13.7
44	HAYWOOD	7	13.8	31	12.6	11.5
45	HENDERSON	17	21.9	78	20.8	18.8

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

MORTALITY STATISTICS FOR 1996, NORTH CAROLINA RESIDENTS
SUICIDE, CONT'D

COUNTIES (CONT'D)	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
46 HERTFORD	3	13.5	9	8.0	8.6
47 HOKE	6	21.3	12	9.2	9.9
48 HYDE	2	38.5	4	15.1	14.2
49 IREDELL	10	9.4	67	13.2	13.1
50 JACKSON	4	13.7	15	10.6	10.2
51 JOHNSTON	19	19.2	75	16.3	15.9
52 JONES	1	10.7	4	8.5	8.7
53 LEE	0	0.0	25	11.1	11.5
54 LENOIR	5	8.4	35	11.9	11.7
55 LINCOLN	6	10.6	40	14.7	14.4
56 MCDOWELL	5	13.0	14	7.6	7.8
57 MACON	2	7.4	23	17.9	15.3
58 MADISON	2	11.0	16	18.2	16.7
59 MARTIN	5	19.4	15	11.6	12.1
60 MECKLENBURG	43	7.2	279	9.9	10.0
61 MITCHELL	5	34.1	11	15.1	12.0
62 MONTGOMERY	5	20.5	23	19.3	20.0
63 MOORE	6	8.8	48	14.8	14.5
64 NASH	10	11.6	52	12.6	13.0
65 NEW HANOVER	14	9.8	94	13.9	13.6
66 NORTHAMPTON	3	14.4	4	3.9	3.8
67 ONSLOW	15	10.0	73	9.9	11.4
68 ORANGE	13	12.3	57	11.0	11.0
69 PAMLICO	3	25.0	8	13.6	12.3
70 PASQUOTANK	1	3.0	15	9.1	9.1
71 PENDER	6	16.7	27	16.1	16.9
72 PERQUIMANS	2	18.6	4	7.6	7.4
73 PERSON	3	9.2	28	17.8	17.2
74 PITT	13	10.9	73	12.6	13.3
75 POLK	4	24.7	21	27.0	23.0
76 RANDOLPH	11	9.3	68	12.0	11.8
77 RICHMOND	9	19.6	33	14.6	14.6
78 ROBESON	10	8.9	54	9.8	10.4
79 ROCKINGHAM	11	12.3	57	13.0	12.9
80 ROWAN	18	14.9	71	12.2	12.0
81 RUTHERFORD	15	25.3	47	16.0	16.0
82 SAMPSON	8	15.5	26	10.4	10.9
83 SCOTLAND	2	5.7	9	5.2	5.4
84 STANLY	7	12.8	39	14.5	14.4
85 STOKES	9	21.3	45	22.4	22.5
86 SURRY	13	19.7	39	12.1	11.0
87 SWAIN	1	8.4	4	6.9	7.7
88 TRANSYLVANIA	2	7.3	14	10.4	9.5
89 TYRRELL	0	0.0	0	0.0	0.0
90 UNION	14	13.7	57	12.0	12.2
91 VANCE	4	9.8	16	8.0	8.4
92 WAKE	51	9.5	225	9.0	9.4
93 WARREN	1	5.5	10	11.2	10.3
94 WASHINGTON	4	29.6	7	10.1	10.1
95 WATAUGA	3	7.4	24	12.2	12.6
96 WAYNE	13	11.6	55	10.0	10.3
97 WILKES	9	14.3	40	13.0	11.8
98 WILSON	5	7.3	47	13.9	14.4
99 YADKIN	3	8.6	27	16.4	15.7
100 YANCEY	2	12.3	10	12.5	11.5

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

Suicide

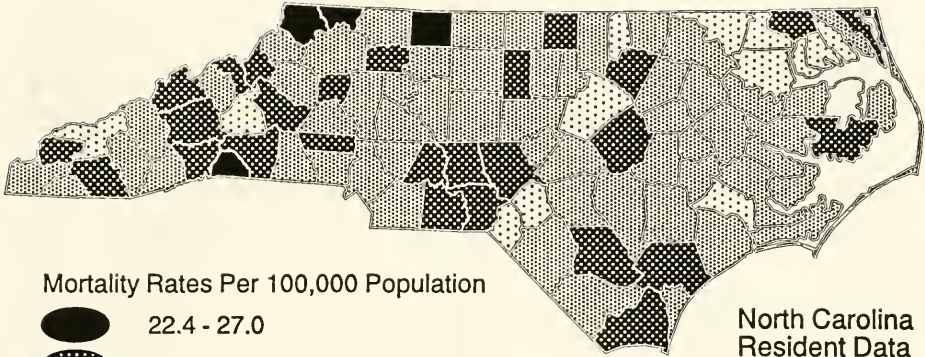


Figure 23.A

Suicide

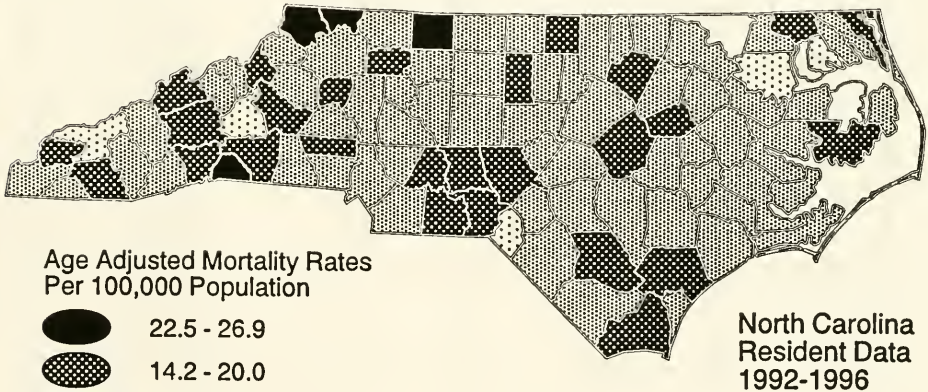


Figure 23.B

TABLE - 24
MORTALITY STATISTICS FOR 1996
NORTH CAROLINA RESIDENTS
HOMICIDE

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
NORTH CAROLINA	667	9.1	3869	10.9	11.2

COUNTIES

1	ALAMANCE	4	3.4	52	9.1	9.5
2	ALEXANDER	3	9.8	15	10.2	10.3
3	ALLEGHANY	0	0.0	1	2.1	2.8
4	ANSON	6	25.2	32	26.9	28.9
5	ASHE	0	0.0	9	7.9	9.0
6	AVERY	0	0.0	2	2.6	2.4
7	BEAUFORT	5	11.6	23	10.7	12.6
8	BERTIE	3	14.6	20	19.5	21.0
9	BLADEN	8	26.6	26	17.7	18.5
10	BRUNSWICK	10	15.9	26	8.9	9.5
11	BUNCOMBE	14	7.3	72	7.8	8.4
12	BURKE	5	6.1	23	5.8	6.1
13	CABARRUS	6	5.3	33	6.1	6.0
14	CALDWELL	7	9.4	36	9.9	10.4
15	CAMDEN	0	0.0	2	6.5	8.0
16	CARTERET	2	3.4	16	5.6	6.0
17	CASWELL	3	14.0	20	18.8	17.8
18	CATAWBA	13	10.2	55	8.8	9.4
19	CHATHAM	10	22.5	28	13.3	14.5
20	CHEROKEE	2	9.1	9	8.4	8.2
21	CHOWAN	1	7.1	4	5.7	5.8
22	CLAY	2	25.5	2	5.3	6.9
23	CLEVELAND	10	11.1	74	16.8	17.9
24	COLUMBUS	5	9.6	32	12.6	13.1
25	CRAVEN	6	6.9	27	6.4	6.4
26	CUMBERLAND	42	14.3	242	16.6	15.9
27	CURRITUCK	0	0.0	4	5.2	5.2
28	DARE	0	0.0	5	4.0	4.4
29	DAVIDSON	7	5.0	50	7.4	7.8
30	DAVIE	1	3.3	11	7.5	8.7
31	DUPLIN	6	13.8	29	13.8	14.7
32	DURHAM	39	20.0	169	17.7	17.0
33	EDGECOMBE	9	16.1	52	18.4	20.0
34	FORSYTH	26	9.1	169	12.2	12.8
35	FRANKLIN	4	9.4	28	13.8	14.1
36	GASTON	26	14.5	132	14.8	15.2
37	GATES	0	0.0	1	2.1	2.1
38	GRAHAM	1	13.3	6	16.3	15.6
39	GRANVILLE	1	2.4	19	9.3	9.5
40	GREENE	4	23.3	9	10.9	12.0
41	GUILFORD	33	8.7	199	10.9	11.1
42	HALIFAX	8	14.2	35	12.3	13.7
43	HARNETT	11	13.8	44	11.7	11.9
44	HAYWOOD	2	3.9	11	4.5	4.5
45	HENDERSON	2	2.6	19	5.1	5.1

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

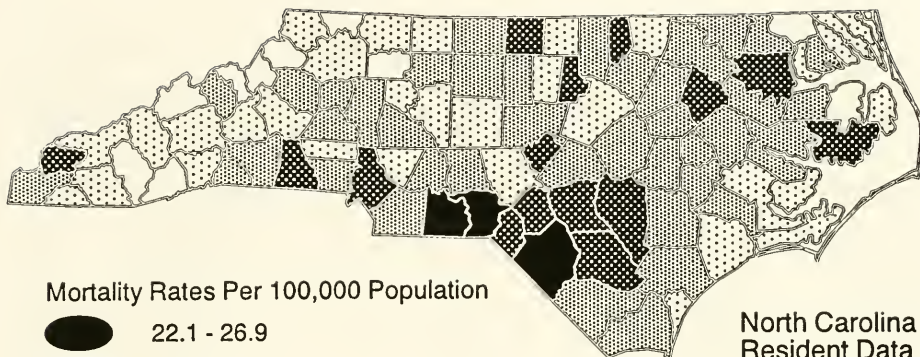
MORTALITY STATISTICS FOR 1996, NORTH CAROLINA RESIDENTS
HOMICIDE, CONT'D

COUNTIES (CONT'D)	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
46 HERTFORD	3	13.5	16	14.3	15.4
47 HOKE	1	3.6	25	19.2	19.2
48 HYDE	1	19.3	5	18.9	21.0
49 IREDELL	8	7.5	51	10.1	10.7
50 JACKSON	0	0.0	3	2.1	1.8
51 JOHNSTON	6	6.0	46	10.0	10.5
52 JONES	0	0.0	5	10.6	11.3
53 LEE	4	8.4	37	16.4	18.1
54 LENOIR	5	8.4	41	13.9	15.0
55 LINCOLN	2	3.5	16	5.9	6.0
56 MCDOWELL	2	5.2	8	4.3	4.2
57 MACON	1	3.7	6	4.7	3.9
58 MADISON	0	0.0	1	1.1	1.0
59 MARTIN	3	11.6	18	13.9	14.7
60 MECKLENBURG	73	12.3	477	16.9	16.8
61 MITCHELL	0	0.0	0	0.0	0.0
62 MONTGOMERY	3	12.3	12	10.1	10.8
63 MOORE	0	0.0	20	6.2	6.9
64 NASH	5	5.8	41	9.9	10.4
65 NEW HANOVER	4	2.8	50	7.4	7.5
66 NORTHAMPTON	5	24.0	12	11.6	10.8
67 ONSLOW	10	6.7	47	6.4	5.7
68 ORANGE	5	4.7	29	5.6	5.1
69 PAMLICO	0	0.0	3	5.1	7.1
70 PASQUOTANK	1	3.0	8	4.8	5.0
71 PENDER	2	5.6	15	8.9	9.4
72 PERQUIMANS	1	9.3	8	15.1	16.6
73 PERSON	1	3.1	8	5.1	5.0
74 PITT	10	8.4	71	12.2	12.1
75 POLK	2	12.3	7	9.0	12.5
76 RANDOLPH	4	3.4	43	7.6	7.7
77 RICHMOND	8	17.5	50	22.1	23.9
78 ROBESON	27	24.1	130	23.7	25.0
79 ROCKINGHAM	6	6.7	43	9.8	10.4
80 ROWAN	7	5.8	51	8.7	9.0
81 RUTHERFORD	3	5.1	32	10.9	11.2
82 SAMPSON	8	15.5	50	20.0	21.4
83 SCOTLAND	4	11.4	28	16.2	17.4
84 STANLY	4	7.3	23	8.6	8.8
85 STOKES	1	2.4	10	5.0	4.8
86 SURRY	4	6.1	14	4.4	4.3
87 SWAIN	1	8.4	4	6.9	7.4
88 TRANSYLVANIA	0	0.0	2	1.5	1.9
89 TYRRELL	0	0.0	0	0.0	0.0
90 UNION	10	9.8	50	10.5	11.0
91 VANCE	7	17.2	36	18.1	19.5
92 WAKE	30	5.6	161	6.5	6.2
93 WARREN	1	5.5	6	6.7	8.9
94 WASHINGTON	1	7.4	6	8.7	9.6
95 WATAUGA	1	2.5	6	3.1	3.7
96 WAYNE	21	18.7	77	14.1	14.3
97 WILKES	3	4.8	23	7.5	7.5
98 WILSON	9	13.1	52	15.4	16.5
99 YADKIN	1	2.9	4	2.4	2.6
100 YANCEY	1	6.2	9	11.3	11.3

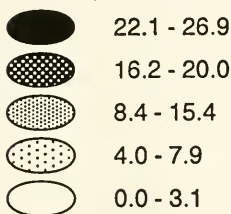
*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

STATE CENTER FOR HEALTH STATISTICS
DEPARTMENT OF HEALTH AND HUMAN SERVICES

Homicide



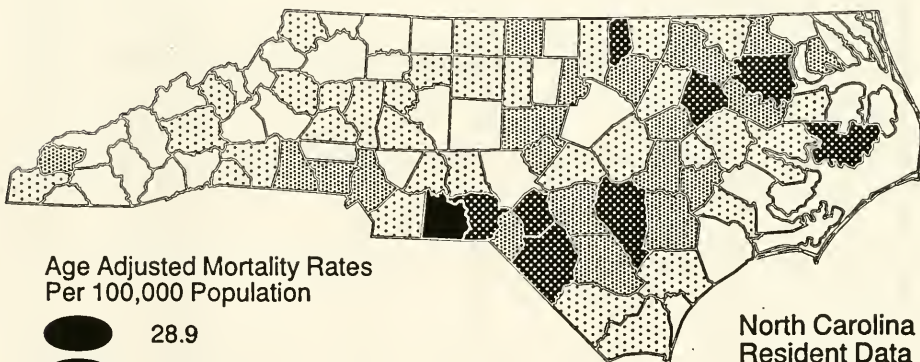
Mortality Rates Per 100,000 Population



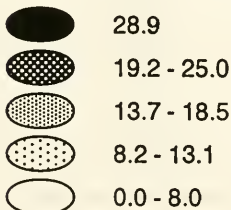
North Carolina
Resident Data
1992-1996

Figure 24.A

Homicide



Age Adjusted Mortality Rates
Per 100,000 Population



North Carolina
Resident Data
1992-1996

Figure 24.B

TABLE - 25
MORTALITY STATISTICS FOR 1996
NORTH CAROLINA RESIDENTS
INFANT DEATHS (PER 1,000 LIVE BIRTHS)

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
NORTH CAROLINA	962	9.2	5024	9.8	0.0

COUNTIES

1 ALAMANCE	11	7.0	64	8.7	0.0
2 ALEXANDER	4	10.2	16	8.6	0.0
3 ALLEGHANY	0	0.0	0	0.0	0.0
4 ANSON	5	14.8	21	11.9	0.0
5 ASHE	3	11.5	12	10.3	0.0
6 AVERY	2	12.9	14	14.8	0.0
7 BEAUFORT	7	13.0	31	10.8	0.0
8 BERTIE	3	10.2	15	10.4	0.0
9 BLADEN	5	11.9	30	14.6	0.0
10 BRUNSWICK	1	1.4	25	6.8	0.0
11 BUNCOMBE	19	8.1	90	7.8	0.0
12 BURKE	10	8.8	56	10.7	0.0
13 CABARRUS	2	1.3	48	6.5	0.0
14 CALDWELL	11	11.5	45	9.2	0.0
15 CAMDEN	1	18.2	4	12.2	0.0
16 CARTERET	5	8.5	29	9.1	0.0
17 CASWELL	4	16.9	17	13.9	0.0
18 CATAWBA	9	5.4	59	6.8	0.0
19 CHATHAM	13	22.1	25	9.0	0.0
20 CHEROKEE	3	12.5	11	9.1	0.0
21 CHOWAN	1	4.8	6	6.1	0.0
22 CLAY	0	0.0	1	3.1	0.0
23 CLEVELAND	10	7.7	64	9.9	0.0
24 COLUMBUS	7	9.7	48	13.2	0.0
25 CRAVEN	7	4.7	69	9.0	0.0
26 CUMBERLAND	58	10.3	316	10.8	0.0
27 CURRITUCK	4	21.5	17	19.0	0.0
28 DARE	1	3.5	7	4.7	0.0
29 DAVIDSON	10	5.4	70	7.9	0.0
30 DAVIE	2	5.9	18	10.4	0.0
31 DUPLIN	8	11.2	48	14.7	0.0
32 DURHAM	23	7.6	153	10.1	0.0
33 EDGECOMBE	10	11.8	58	12.9	0.0
34 FORSYTH	48	12.0	243	12.3	0.0
35 FRANKLIN	3	5.5	33	12.4	0.0
36 GASTON	19	7.5	119	9.4	0.0
37 GATES	1	12.0	4	7.2	0.0
38 GRAHAM	0	0.0	3	6.5	0.0
39 GRANVILLE	4	7.5	35	12.9	0.0
40 GREENE	2	8.5	18	17.9	0.0
41 GUILFORD	60	11.5	263	10.2	0.0
42 HALIFAX	8	10.9	69	16.4	0.0
43 HARNETT	12	8.7	61	9.4	0.0
44 HAYWOOD	8	15.7	21	7.9	0.0
45 HENDERSON	13	14.8	34	8.3	0.0

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

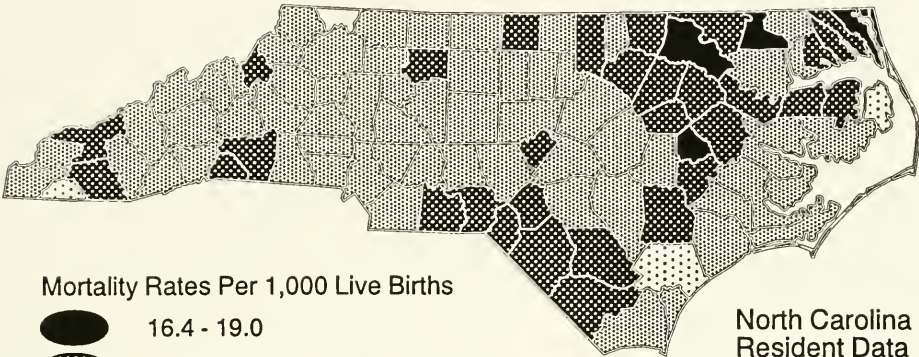
Note: The death rates in this table are per 1,000 live births.

MORTALITY STATISTICS FOR 1996, NORTH CAROLINA RESIDENTS
 INFANT DEATHS (PER 1,000 LIVE BIRTHS), CONT'D

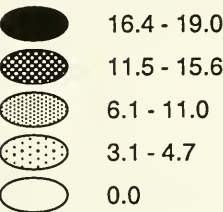
COUNTIES (CONT'D)	NUMBER OF DEATHS 1996	DEATH RATE* 1996	NUMBER OF DEATHS 1992-1996	DEATH RATE* 1992-1996	ADJUSTED DEATH RATE* 1992-1996
46 HERTFORD	5	17.8	27	17.4	0.0
47 HOKE	6	11.0	38	15.6	0.0
48 HYDE	2	35.1	3	9.8	0.0
49 IREDELL	10	6.9	64	9.0	0.0
50 JACKSON	3	9.4	14	9.1	0.0
51 JOHNSTON	15	9.5	62	8.5	0.0
52 JONES	1	9.8	5	8.8	0.0
53 LEE	11	15.7	48	13.7	0.0
54 LENOIR	11	12.2	56	12.8	0.0
55 LINCOLN	7	8.7	34	9.2	0.0
56 MCDOWELL	5	10.5	18	7.8	0.0
57 MACON	5	17.8	17	13.0	0.0
58 MADISON	2	9.2	8	8.1	0.0
59 MARTIN	4	13.4	21	12.4	0.0
60 MECKLENBURG	60	6.4	363	8.1	0.0
61 MITCHELL	0	0.0	7	8.8	0.0
62 MONTGOMERY	4	11.2	20	11.0	0.0
63 MOORE	10	12.5	44	11.0	0.0
64 NASH	21	17.3	79	13.1	0.0
65 NEW HANOVER	13	7.1	66	7.3	0.0
66 NORTHAMPTON	9	36.3	21	15.5	0.0
67 ONSLOW	25	7.6	135	8.2	0.0
68 ORANGE	11	9.8	45	8.0	0.0
69 PAMLICO	0	0.0	4	7.0	0.0
70 PASQUOTANK	5	11.8	34	15.3	0.0
71 PENDER	1	2.5	10	4.6	0.0
72 PERQUIMANS	1	8.7	8	13.3	0.0
73 PERSON	3	7.2	20	9.4	0.0
74 PITT	30	16.6	118	13.7	0.0
75 POLK	3	17.4	10	12.4	0.0
76 RANDOLPH	15	9.1	58	7.4	0.0
77 RICHMOND	12	18.0	42	12.4	0.0
78 ROBESON	28	14.2	111	11.5	0.0
79 ROCKINGHAM	12	10.4	61	10.7	0.0
80 ROWAN	11	7.3	73	9.8	0.0
81 RUTHERFORD	7	8.9	50	12.6	0.0
82 SAMPSON	4	5.0	37	10.2	0.0
83 SCOTLAND	5	8.7	38	13.6	0.0
84 STANLY	10	13.9	29	8.3	0.0
85 STOKES	3	6.2	25	10.2	0.0
86 SURRY	4	4.5	29	6.9	0.0
87 SWAIN	0	0.0	12	14.3	0.0
88 TRANSYLVANIA	4	12.9	15	10.3	0.0
89 TYRRELL	2	55.6	3	14.9	0.0
90 UNION	14	8.4	66	8.5	0.0
91 VANCE	8	12.4	34	10.5	0.0
92 WAKE	61	7.5	327	8.6	0.0
93 WARREN	0	0.0	12	11.7	0.0
94 WASHINGTON	5	24.0	12	12.1	0.0
95 WATAUGA	5	13.2	16	8.9	0.0
96 WAYNE	9	5.5	68	8.5	0.0
97 WILKES	8	9.9	33	8.4	0.0
98 WILSON	12	11.6	61	12.3	0.0
99 YADKIN	3	6.4	17	7.9	0.0
100 YANCEY	0	0.0	6	6.7	0.0

*Death rates with a small number of deaths in the numerator should be interpreted with caution. SEE TECHNICAL NOTES.

Infant Deaths



Mortality Rates Per 1,000 Live Births



North Carolina
Resident Data
1992-1996

Figure 25

TECHNICAL NOTES

Computation of Death Rates

In this report, general mortality rates are expressed as resident deaths per 1,000 population. All cause-specific death rates are expressed as resident deaths per 100,000 population. All rates in Tables 1-24 use total population in the denominator but rates for the sex-specific cancer sites use male or female population in the denominator. Population bases for these rates were provided by the Office of State Planning in the Governor's Office. The infant mortality rates of Table 25 and Figure 25 are computed as the number of resident deaths under one year of age per 1,000 resident live births.

Deaths in this report are assigned to place of residence. For deaths of people in long-term institutions (mental, penal, old age, orphan, nursing home, rest home, etc.), the institution is considered the usual residence if the decedent lived in the institution at least one year. College students and military personnel are considered residents of the college or military community.

The following definitions apply to the rates of this report:

Unadjusted Annual Death Rate: The annual death rates are computed as resident deaths per 1,000 or 100,000 population. These rates reflect an area's status according to the deaths during the given year.

Unadjusted 5-Year Death Rate: The average annual death rates are computed as average resident deaths per 1,000 or 100,000 average population. These rates give an area's status with respect to the deaths during the 5-year period and are shown in state and county maps (e.g. Figures 5.A, 6.A).

Adjusted 5-Year Death Rate: The average annual age-adjusted rates are computed by the direct method. Also expressed as deaths per 1,000 or 100,000 population, these rates are those that would be expected if the age composition of each county's population were the same as that estimated for the state in 1990. These rates are not affected by age. However, the user should not compare an adjusted death rate to an unadjusted death rate. Also, adjusted rates for different time periods cannot be directly compared unless they were adjusted by the same standard population.

The adjusted rates in the previous editions of this publication for the 1986-1990 through 1991-95 time periods used the 1980 North Carolina population as the standard. Beginning with this 1996 edition, the 1990 North Carolina population is used as the standard. Also, the rates in this edition are age-adjusted whereas rates in previous editions were age-race-sex adjusted (see page 104 for the justification for this change). **Therefore, the adjusted rates in the 1996 edition are not comparable to those in previous editions.** Adjusted rates are depicted in the state and county maps (e.g., Figures 5.B, 6.B). [Note: For the two sex-specific cancer sites (female breast and prostate), rates are adjusted for age and denominators are sex-specific.]

In age-adjusting the death rates in this publication, the following 10 age groups are used to compute age-specific death rates for each geographic area and cause of death and apply these to the 1990 North Carolina standard population by age: 0-4, 5-14, 15-24, 25-34, 35-44, 45-54, 55-64, 65-74, 75-84, and 85+.

For the maps, a clustering routine* from the Statistical Analysis System (SAS) was used to group counties that are "most like each other" with respect to their unadjusted and their adjusted rate. These maps show five levels of death rates, where level one is the lowest rate interval and level five the highest.

A word of caution: Rates for sex-specific cancers (e.g., prostate) use male or female population in the denominator and therefore are not comparable to other rates. Thus, in ranking the causes of death—for example, in ranking the leading cancer sites—one must use the observed numbers of deaths rather than the rates.

Interpretation of Death Rates

To assess an area's relative mortality conditions during a 5-year period, both the unadjusted and the adjusted rate can be compared to the corresponding state rates for a particular cause of death. This, of course, should not be done if the area's unadjusted rate had fluctuated widely in recent years. The rate should represent a relatively stable situation. Then, the following alternative interpretations will apply:

Relative Status Of		Interpretation of Unadjusted Rate
Unadjusted Rate	Adjusted Rate	
Low	Low	Low mortality is not due to age, other mortality conditions are favorable.
Low	High	Low mortality is due to favorable age distribution, other mortality conditions are unfavorable.
High	Low	High mortality is due to unfavorable age distribution, other mortality conditions are favorable.
High	High	High mortality is not due to age, other mortality conditions are unfavorable.

*In 1983 the State Center for Health Statistics conducted an evaluation of several clustering methods. It was found that the "Average Linkage Method" produced tighter clusters (i.e., clusters with smaller within-cluster variances) than the other methods examined. Consequently, this method is used to cluster county rates in this publication.

In using adjusted rates, it is important that the user understand the reason for adjustment. Example: A and B stand for population subgroups, e.g., older and younger persons or males and females.

	COUNTY			STATE		
	Population	Deaths	Death Rate*	Population	Deaths	Death Rate*
Population A	300,000	1,000	333.3	500,000	2,500	500.0
Population B	10,000	10	100.0	800,000	1,000	125.0
Total	310,000	1,010	325.8	1,300,000	3,500	269.2

*Deaths per 100,000 population.

Compared to the state, county subgroups A and B both have lower rates, but the county as a whole (A and B combined) has a higher rate. This seems to be a paradox that results from two factors—different proportions of A and B in the county vs. the state population and wide differences between the rates for A vs. B. In this example, it is true that the county has the higher total rate—BUT ONLY BECAUSE THE POPULATION CONTAINS A HIGH PROPORTION OF SUBGROUP A.

It is important for program planners to know that the county has a high rate relative to the state rate; this information is needed to determine manpower, facility, and related needs. But in assessing “risk,” the researcher needs to adjust for confounding factors such as age. To do this, multiply each population-specific county rate by the corresponding “standard” population, sum these results, and divide by the total “standard.” In the above example, using the state population as the standard, the computation is:

$$\frac{(1000/300,000 \times 500,000) + (10/10,000 \times 800,000)}{1,300,000} = 0.001897 \text{ or } 189.7 \text{ per } 100,000 \text{ population}$$

Thus, as rates specific for A and B imply, the county’s rate is lower than the state’s rate after adjustment for the factor represented by A and B.

Caution: In assessing the relative mortality conditions of a county, be particularly aware of rates based on small numbers of deaths since, in such cases, random fluctuation in the rate may render rate comparisons risky. The reader should read very carefully the next section entitled “Caution About Use of Rates.”

Caution About Use of Rates

Small Number of Events:

Any death rate with a small number of deaths in the numerator will have substantial random variation over time (a large standard error). A good rule of thumb is that any rate based on fewer than 20 events in the numerator may be subject to serious random error. As such, extreme caution and reservation should be taken when comparing or assessing trends with rates calculated with fewer than 20 events. Many of the death rates in this report have numerators smaller than 20.

Adjusted Death Rates:

Crude death rates are affected by the demographic composition of populations. As such, differences in demographic composition from one geographic area to another or from one point in time to another may hinder comparisons. The standardized adjustment of rates addresses this problem. The adjusted rate is a hypothetical rate computed in a way that reflects what the death rate would be in a particular geographic area, if the geographic area had the same age composition of the standard population. The measure, while useful for comparative purposes across time and geographic area, has no observable or descriptive value in and of itself. The adjusted rate provides opportunities for comparisons across time and geographic area as long as all rates that are to be compared share the same population standard and are adjusted for the same demographic categories.

Small Subpopulations

Adjusted rates in the 1996 edition of the *Leading Causes of Death* represents a shift from age-race-sex adjusted rates to age-adjusted rates. This change was made because small age-race-sex populations may produce unstable age-race-sex adjusted rates. One death out of an estimated population of five, for example, would produce a death rate of 20,000 per 100,000 population. If this rate were applied to the appropriate age-race-sex group of the standard population, a very large number of expected deaths would result and the adjusted rate would be extremely high. On the other hand, zero deaths in several population groups may result in a very low age-race-sex adjusted rate.

Counties with a very small minority population, predominantly in western North Carolina, are particularly subject to extreme age-race-sex-adjusted rates (high or low) due to small age-race-sex-specific population groups. For example, in the 1995 *Leading Causes of Death*, Macon County was shown as having a 1991-1995 age-race-sex adjusted death rate for breast cancer of 64.6 compared to the adjusted state rate of 28.3. Further investigation showed that this very high adjusted rate was due to two breast cancer deaths in a very small age 55-64 minority female population group. When the 1991-95 breast cancer death rate was adjusted only for age, the Macon County rate was 30.4 compared to a North Carolina age-adjusted rate (1980 standard) of 25.6. Unusually high or low rates, therefore, may be biased due to small numbers. To eliminate these problems, the 1996 edition reports only age-adjusted rates. By dividing the deaths and population into 10 age groups rather than 40 age-race-sex groups in order to calculate an adjusted rate, the adjusted rates will be much more stable statistically. Also, age generally has a much stronger impact on mortality than race or sex, and therefore is the most important factor to adjust for.

Since the adjusted rates in this edition would not be comparable to those in earlier editions due to the changes discussed above, we decided to also change to the 1990 North Carolina population as a more contemporary standard so that the size of the unadjusted and adjusted rates would not differ as much.

APPENDICES

APPENDIX A

List of Selected Causes of Death

(used for Tables 3 and 4)

CAUSE OF DEATH	ICD-9 CODES*
Diseases of Heart.....	390-398,402,404-429
Cerebrovascular Disease.....	430-438
Atherosclerosis.....	440
Cancer.....	140-208
Lip, Oral Cavity, and Pharynx	140-149
Stomach	151
Colon, Rectum, and Anus	153,154
Liver.....	155
Pancreas	157
Larynx.....	161
Trachea, Bronchus, and Lung.....	162
Malignant Melanoma.....	172
Female Breast.....	174
Cervix Uteri.....	180
Ovary and Other Uterine Adnexa	183
Prostate	185
Bladder.....	188
Brain Tumors.....	191,225,237
Non-Hodgkins Lymphoma	200,202
Leukemia.....	204-208
Acquired Immune Deficiency Syndrome	042-044
Septicemia.....	038
Diabetes Mellitus.....	250
Pneumonia and Influenza	480-487
Chronic Obstructive Pulmonary Disease and Allied Conditions	490-496
Chronic Liver Disease and Cirrhosis	571
Nephritis, Nephrotic Syndrome, and Nephrosis	580-589
Unintentional Motor Vehicle Injuries	810-825
All Other Unintentional Injuries and Adverse Effects	800-807,826-949
Suicide.....	950-959
Homicide	960-978

*International Classification of Diseases, Ninth Revision.

APPENDIX B

List of 43 Selected Causes of Death*

(used for Table 1)

CAUSE OF DEATH	ICD-9 CODES**
Shigellosis and amoebiasis	004,006
Certain other intestinal infections.....	007-009
Tuberculosis.....	010-018
Whooping cough.....	033
Streptococcal sore throat, scarlatina, and erysipelas.....	034-035
Meningococcal infection.....	036
Septicemia.....	038
Human immunodeficiency virus infection (AIDS)	042-044
Acute poliomyelitis	045
Measles	055
Viral hepatitis.....	070
Syphilis	090-097
All other infectious and parasitic diseases	001-003,005,020-032,037,039-041,046-054,056-066,071-088,098-139
Malignant neoplasms, including neoplasms of lymphatic and haematopoietic tissues	140-208
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature.....	210-239
Diabetes mellitus.....	250
Nutritional deficiencies.....	260-269
Anemias	280-286
Meningitis	320-322
Diseases of heart	390-398,402,404-429
Hypertension with or without renal disease.....	401,403
Cerebrovascular disease	430-438
Atherosclerosis.....	440
Other diseases of arteries, arterioles, and capillaries	441-448
Acute bronchitis and bronchiolitis	466
Pneumonia and influenza	480-487
Chronic obstructive pulmonary diseases and allied conditions	490-496
Ulcer of stomach and duodenum.....	531-533
Appendicitis.....	540-543
Hernia of abdominal cavity and intestinal obstruction without mention of hernia	550-553,560
Chronic liver disease and cirrhosis.....	571
Cholelithiasis and other disorders of gallbladder	574-575
Nephritis, nephrotic syndrome, and nephrosis	580-589
Infections of kidney	590
Hyperplasia of prostate	600
Complications of pregnancy, childbirth, and the puerperium	630-676
Congenital anomalies	740-759
Certain conditions originating in the perinatal period.....	760-779
Symptoms, signs, and ill-defined conditions	780-799
Injuries and adverse effects	E800-E949
Suicide.....	E950-E959
Homicide and legal intervention.....	E960-E978
All other external causes.....	E980-E999

*List developed by the National Center for Health Statistics.

**International Classification of Diseases, Ninth Revision.

APPENDIX C

List of 27 Selected Causes of Infant Death*

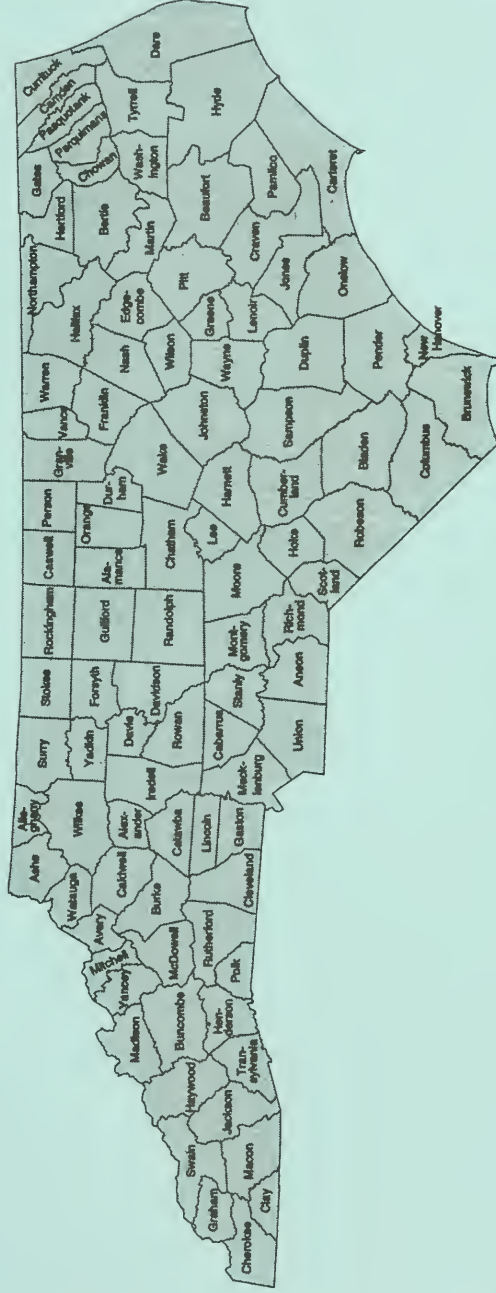
(used for Table 1, Ages <1)

CAUSE OF DEATH	ICD-9 CODES**
Certain intestinal infections	008-009
Whooping cough	033
Meningococcal infection.....	036
Septicemia.....	038
Viral diseases.....	045-079
Congenital syphilis	090
Remainder of infectious and parasitic diseases.....	001-007,010-032,034-035,037,039-041,080-088,091-139
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	140-208
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature.....	210-239
Diseases of thymus gland.....	254
Cystic fibrosis	277.0
Diseases of blood and blood-forming organs	280-289
Meningitis	320-322
Other diseases of nervous system and sense organs	323-389
Acute upper respiratory infections	460-465
Bronchitis and bronchiolitis	466,490-491
Pneumonia and influenza	480-487
Remainder of diseases of respiratory system	470-478,492-519
Hernia of abdominal cavity and intestinal obstruction without mention of hernia	550-553,560
Gastritis, duodenitis, and noninfective enteritis and colitis.....	535,555-558
Remainder of diseases of digestive system	520-534,536-543,562-579
Congenital anomalies	740-759
Certain conditions originating in the perinatal period	760-779
Symptoms, signs, and ill-defined conditions	780-799
Accidents and adverse effects	E800-E949
Homicide	E960-E969
All other causes.....	Residual

*List developed by the National Center for Health Statistics.

**International Classification of Diseases, Ninth Revision.

North Carolina Counties



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